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Collection and Field Note Book

No. 77

(August 2, 1965 - August 24, 1965)

(46839 - 47481)

CAROLINE ISLANDS

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CAROLINE ISLANDS

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END



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*fil  
lari*



- ✓ Premna - yan
- ✓ Otthyaia sivilkuel
- ✓ Phyllanthus walpachii
- ✓ Achyranthes egyptohur
- ✓ Magnostia burnak
- ✓ Clerodendrum abui
- ✓ Pteris sivilkuel
- ✓ Capsicum amuek
- ✓ Hedysotis oposar
- ✓ Adenostemma goelusöck
- ✓ Cenchrus viridis älu
- ✓ Piper sp. elek
- ✓ Ficus awal
- ✓ Ipomoea walikurd
- ✓ Cyperus fithin nar
- fungi seling
- ✓ moss lum

- ✓ Mirabilis flores
- ✓ Morinda leen
- ✓ Fleurya afelefelech
- ✓ Tabernaemontana just brought from Uchi
- ✓ Vernonia oposar
- ✓ Polyscias yobung
- ✓ Zephyranthes (strong)
- ✓ Portulaca sam. op
- ✓ ~~Cleome~~ ~~Cestrum~~ langet
- ✓ Citrus lemon
- ✓ Artemisia iarbwas
- ✓ Colocasia wot malu
- ✓ Glehnia pake
- ✓ Catharanthus pueo puech
- ✓ Zoyaia fetil
- ✓ Ipob. kornole
- ✓ Xanthosoma s. zigalulu



Pugurci  
man with canoe  
Alcilei  
cel 52

- Amaranthus -
- ✓ Asclepias pugarigaita
- ✓ Alocasia filē
- ✓ Vigna olū
- ✓ Clerodendrum inermis aupii
- ✓ Coleus wanguchā
- ✓ Fimbristylis pukarangas
- ✓ Thuarea fetilupmai
- ✓ Hymenocallis liris
- ✓ Lepturus fetil
- ✓ Casuarina neuber
- ✓ Cosmos l. purang palap
- ✓ Dioscorea f. pelai
- ✓ Asclepias margarita
- ✓ Cler. spec. ambui vilipū
- ✓ Pilea seling
- ✓ Cucurb - calamasa

Seowh  
§1 for shells  
+ 400

- ✓ Wedelia atiat
- ✓ Ficus awan
- ✓ Antocarpus māi
- ✓ Ipomoea l. K raiwal
- ✓ Blechnum rudanese tiwai
- ✓ Tacca māpū māpū  
~~mag mag~~
- ✓ Pipturus aroma
- ✓ Polypodium irai
- ✓ Cratogeia afur
- ✓ Piper fo. atobuesi
- ✓ Nephrolepis amārei
- ✓ Xanthosoma Hondulu cha
- ✓ Rencaena tangan tangan
- ✓ Ocimum taipwo
- ✓ Portulaca of. erbul
- ✓ Pand. dubus pogu
- ✓ Mentha cachelu
- ✓ Hernandia rang



- ✓ Plumeria sen
- ✓ Hib. til. kilipu
- ✓ Premna ear
- ✓ Caesalpinia wanipik
- ✓ Prendergast. atrop. kalsino
- ✓ Asplen. nidus cher lub  
rel lub
- ✓ Hib. hybr. pue tal
- ✓ Cyrtosperma purla
- ✓ Tournefortia chel
- ✓ Scaevola lat
- ✓ Cassytha tig
- ✓ Terminalia kil
- ✓ Canavalia walimo
- ✓ Triumfetta ara
- ✓ Euphorbia ~~elich~~  
~~elicht~~  
~~elicht~~  
~~echit~~  
echich

- ✓ ~~at~~ Cordia alu
- ✓ Pemphis engi
- ✓ Guettarda mnesor
- ✓ Callicarpa ligitar
- ✓ Barringtonia as. kul
- ✓ Brugnera yong
- ✓ Acrostichum epau
- ~~Guettarda~~
- ✓ Pisonia moek
- ✓ Eugenia faliap
- ✓ Pand. tect. fach
- ✓ Coconut flower mu  
irir
- ✓ Lophna - kol'u  
honn



8

1965 Caroline Is.

Safely

Aug. 2 - ~~east~~<sup>south</sup> side of island

at top of beach

46839. *Tournefortia argentea* L.f.

occasional in open scrub

46840. *Vigna marina* (Burm.f.) Merr.  
abundant41. *Scaevola taccada* (Gaertn.) Roxb.  
very common, forming scrub fringe42. *Cassytha filiformis* L.  
very common, parasitic on many plants.~~42~~

same - in forest back of beach

43. *Terminalia samoensis* Rech.  
occasional to common44. *Canavalia cathartica* Thunb.  
common

#

45. *Triumfetta procumbens* Forst.f.  
locally common

#

46. *Euphorbia charnissensis* (Kl. + Gled.)  
locally common47. *Cordia subcordata* Lam  
rare

Latawal

9

1-2 m

↓

"chel" leaves fleshy, frosty green;  
shrub 2 m. tall, flowers  
white. (leaves unusually wide)  
creeping, forming mat,  
flowers yellow. "öli"  
shrub 2 m. tall, flowers  
seen to 5 or 6 m., flowers  
white; ripe fruit fleshy, white.  
"lat"leafless, stems green, or  
yellow where exposed to full  
sun; flowers white; fruit  
fleshy, greenish white,  
slightly aromatically  
acid. "tiq"tree 5 m. tall; fruit immature.  
"kil"Extensive twining vine,  
dark green, mostly sterile.  
"walima"prostrate, branches  
ascending; all seen sterile.  
"ara"

Boiss.

stems erect, tips arching,  
flowers greenish. "echick"  
slender tree 6 m. tall  
rather yellowish or chlorotic,  
sterile. "alu"



Labels  
typed 10

1965 Caroline Is.

~~468~~ Aug. 2 - ~~west~~<sup>north</sup> side of island  
just back of beach

46848. *Lepturus repens*  
locally common in open

4 49. *Fimbristylis cynnosa* R.Br.  
locally common

42+50. *Thuarea involuta* (Forst.f.) R. & S.  
common

1 +51. *Casuarina equisetifolia* L.  
one tree seen

42+52. *Clerodendrum inerme* (L.) Jacq. str.  
forming low tangle  
~~sage~~

same - around dwelling  
in village

31+53. *Caesalpinia pulcherrima* (L.) Sw.  
rare, planted

1 +54. *Pseuderanthemum carutherii*  
var. *atropurpureum* (Bull.) Forst.  
rare, planted

31+55. *Morinda citrifolia* L.  
common

41+56. *Mirabilis jalapa* L.  
planted

1 57. *Citrus aurantifolia* (Christm.) Swingle  
planted, rare

31 58. *Tabernaemontana* ~~divaricata~~<sup>divaricata</sup> (L.) R. Br.  
planted, rare

31 59. *Polyscias fruticosa* (L.) Harms  
planted, rare

41+60. *Portulaca samoensis* v. *poellii*  
common on bare coral gravel

Satawal

11

forming loose mat;  
glaucous. "fetil"  
"pukaranga"

prostrate, forming  
loose mats. "fetilupwai"  
tree 12 m. tall. "~~Q. fix~~"  
"neuhir" "~~hehler~~"

shrub; flowers white  
with maroon stamens.  
"aupui"

shrub 2 m. tall,  
flowers scarlet. "waripik"  
sterile shrub with  
deep maroon leaves.  
"kakive"

shrub 3-4 m. tall,  
flowers white, fruit  
almost mature, fleshy  
"leen" (lan)

branched herb; flowers  
crimson. "flores"  
shrub, sterile "lemon".

shrub, buds white  
said to have recently been  
brought from Ulithi.

shrub 1.3 m. tall. "yobung"

prostrate, fleshy, flowers  
yellow. "op"



46861. *Artemisia vulgaris* L. <sup>specimen discarded</sup>  
planted, rare, one small  
patch seen.
- 1 + 62. *Zephyranthes rosea*  
occasional, planted
- 1 63. *Colocasia esculenta* (L.) Schott  
common, planted on dry land
- 82 64. *Zoysia tenuifolia* Trin.  
common
- 21 65. *Solanum melongena* L.  
rare, planted
- 81 66. *Ipomoea batatas* (L.) Lam.  
common, planted
- 81 + 67. *Catharanthus roseus* (L.) Don  
common, planted
- 21 + 68. *Eleusine indica* (L.) Gaertn.  
abundant
- 1 69. *Alopecurus macrorhiza*  
common
- 1 70. *Xanthosoma sagittifolium* (L.) Schott  
common, planted
- 5 + 71. *Phyllanthus amarus*  
very common
- 6 + 72. *Eragrostis tenella* (L.) Beauv.  
very local
- 41 73. *Hedyotis biflora* (L.) Lam.  
common along paths
- 42 74. *Cenchrus ~~brevifolius~~ <sup>brevifolius</sup> brownii* R. & S.  
common in open place
- 21 75. *Cyperus brevifolius* (Rottb.) Hassk.  
very local
- 1 76. *Cucurbita maxima*

271

aromatic, sterile. ~~Sarbus~~  
"iarbwas"

flowers pink

leaves glaucous "wot onalu"

forming dense mat-like  
sod. "fetil"

coarse, spreading, branched  
herb, flower lavender,  
fruit subglobose, blackish  
purple.

sterile creeper. "komote"

corolla bright magenta  
"pueopuech"

"pukei"

other plants seen with  
enormous leaves, stem  
said to be eaten "file"

glaucous, sterile "yigalulu"  
"walpachi"

"burnak"

prostrate, flowers white.  
"opusai"

culms spreading and  
ascending. "alu"

heads green "fithin nar"

creeping vine, leaves spotted.  
"calamasa"



46877. *Asclepias curassavica* L.  
 41+ planted
- 21 78. *Cosmos sulphureus* ?  
 planted
- 1 79. *Coleus scutellarioides* L.  
 rare, planted
- 12 +80. *Vernonia cinerea* var. *pauiflora*  
 common
- 41 81. *Orizyza sativum*  
 planted
- 44 82. *Blechnum cf. ellipticum* <sup>edmonsonii</sup>  
 planted, rare <sup>labillardieri</sup>
- 1 +83. *Hernandia sonora* L.  
 rare, probably planted
- 5 +84. *Hibiscus tiliaceus* L.  
 occasional
- 1 +85. *Plumeria rubra* L.  
 occasional, planted
- 1 +86. *Hymenocallis littoralis* (Jacq.) <sup>Salieb.</sup>  
 common
- 82 87. *Portulaca oleracea* L.  
 locally common  
 bare coral gravel
- 1 +88. *Nicotiana glauca* L.  
 planted and carefully tended
- 6 88a. *Amaranthus viridis* L.  
 very local

- herb to 1 m. tall; corolla  
 red, corona "margarita" "margarita"  
 orange.
- herb to 1 m. tall, flowers  
 bright orange. "murang palap"  
 leaves narrow, corolla  
 blue. "waruguchá"
- flower purple "opusai"
- aromatic herb, 3-4 dm.  
 tall, purplish. "taipwo"
- shrub 2 m. tall, lactiferous,  
 corolla white, contorted in  
 bud. "langet"
- small sterile tree "orang"
- tree 8 m. tall, flowers  
 yellow. "hilifu"
- thick stemmed shrub,  
 flowers white with yellow  
 center. "sen"
- leaves distichous, scapes  
 compressed, sharp edged,  
 flowers white, with thin white  
 web. "lirio"
- plant fleshy, brownish  
 green. "erbul"
- herb 1 m. tall, leafy;  
 flowers rose-pink.  
 plants erect



Label  
16

1965 Caroline Is.

Aug 2 - interior of island  
in dense breadfruit  
forest with many  
coconut trees

2 m  
↓

(with  
moss)  
46889  
121

*Clerodendrum speciosissimum* am  
occasional

41 90. *Cratogeomys speciosa* Volk.  
common

41 91. *Premna obtusifolia*  
common

32 92. *Digitaria pruriens* var.

locally common

3 + 93. <sup>92a *Thyarea involuta*</sup>  
*Paspalum conjugatum* Berg

(with  
moss)  
31

94. *Cyrtosperma chamissonis* (Schott) M. en.  
planted in pit with  
water in bottom.

*Cyrtosperma merkusii* (Hassk.) Schott  
det. J. H. Nicolson (US) 10/6/1998

72 + 95. *Asplenium nidus* L.  
rare, at foot of  
large tree

71 96. *Hibiscus rosa-sinensis* x *schuyzeri* status  
very local

4 97. *Piper bonapense* C. DC.  
occasional, climbing on  
tree trunks

datawal

17

herb 1 m. tall, calyx red,  
odor foetid when broken  
or rubbed. "aubui vilifu" "abui"  
small tree, 4-5 m. tall,  
flowers white, turning yellow.  
"afui"

~~shrub~~ shrub 3 m. tall,  
~~aromatic~~ aromatic; stems  
& petioles and flower green.  
"iai" or "ei"

culms decumbent to  
erect.

prostrate, fruiting culms  
erect.

leaves to 4 m. tall,  
~~scape~~ blades erect,  
bright green; scape  
1.5 m. tall, curved at top,  
spathe bronze-green, glossy  
outside, pale green, dull  
within, spadix pale  
green, pollen only on a  
zone near top. "pula"

fronds ascending  
from rosette.  
"cherluk" "reluk"

shrub 1.5 m. tall; buds red.  
"pue tal"

vine, sterile "elek"



Salisbury  
18

1965 Caroline Is.

46898. *Dioscorea bulbifera* L.  
31 occasional

8, 99. *Ficus tinctoria*  
occasional

46900. *Pilea microphylla*  
X1 very local on coral gravel  
2 01 (moss)  
common on coral boulders  
in shade

2 02 (moss)  
common on coconut trunks

1 03. *Pandanus dubius*  
~~rare~~ occasional

8, 04. *Pteris tripartita* Sw.  
common

42 05. *Pipturus argenteus*  
occasional

45 06. *Athyrium blumei* (Blq.) Copl.  
common

32 07. *Piper fragile* Benth.  
common, climbing on  
tree trunks

3 08. *Artocarpus altilis* (Park.) Forst.  
dominant tree in forest

32 09. *Nephrolepis biserrata* (Sw.) <sup>Schott</sup>?  
very common, terrestrial

1 10. *Adenostemma lavenia* (L.) Ktze.  
occasional

3 + 11. *Polypodium scolopendria* Benth.  
abundant, climbing on  
tree trunks, also terrestrial

Satawal

19

sterile vine "pelai"

~~small~~ sparsely branched  
shrub, all seen sterile  
"awan" "awal"

stems fleshy "seling"

"lum"

"lum"

sterile shrub 3 m. tall;  
all seen sterile. "pogu"  
"sivilkuel"

shrub 3 m. tall. "aroma"

rhizome short, erect.  
"sivilkuel"

sterile vine "atobuei"

small tree 10 m. tall, probably  
a sprout from an enormous  
one 30 m. tall and a meter  
through. "mai" (mi)

fronds and rhizomes erect.  
"amarei"

heads whitish. "yoelusok"

"risi"



46912. *Xanthosoma violaceum* Schott  
spontaneous
- 1 +13. *Tacca leontopetaloides* (L.) O.Ktze.  
occasional
- 72 14. *Achyranthes aspera* L.  
locally common in openings
- 21 15. *Premna obtusifolia* R.Br.?  
occasional along path
- 32 +16. *Capsicum frutescens* L.  
occasional along path
- 28 (with green) 17. *Ipomoea indica* (Burm.) Merr.  
common in semi-openings
- 4 +18. *Flouya ruderalis*  
generally common
- 2 +19. *Ipomoea littoralis* Bl  
occasional along trail
- 14 +20. *Wedelia biflora* (L.) DC.  
common generally  
except in deepest shade
- 43 +21. *Blechnum brownii* f. *puberula* Presl.  
locally common
- 1 22. *Peucaena ~~glauca~~ <sup>leucocarpa</sup>* (Lam.) DeWitt  
single seedling seen
- 3 23 (moss)  
on coconut trunk
- 3 24 (moss)  
on coconut trunk
- 2 (25 (fungi)
- 2 26
- 2 27
- 1 28 on dead wood

- petioles and even leaves  
dark purple. "honolulu cha"  
scape 1.3 m. tall, flowers  
green, leaves tripartite  
complex. "mohumok" or "mogumog"  
erect herb 1 m. tall,  
branching. "tēggothui"  
shrub, stems and  
petioles dark maroon  
almost black; sterile. "sar"  
suffrutescent herb or shrub  
1 m. long; flowers white  
with bluish stamens;  
fruit scarlet. "amuch"  
extensive twiner, rather  
chlorotic; ~~stems~~ one flower seen.  
"walikand"  
stems red, fleshy.  
"afelefelegich"  
sterile creeper "raiwai"
- spreading extensive herb;  
heads yellow. "atiat"  
stems decumbent & erect.  
"rud. aner se tiwai"
- "tangan-tangan"  
"lum"
- dense pale green cushion  
~~"seling"~~ "lum"  
"seling"  
"seling"  
"seling"  
"seling"



22

1945 Caroline Is.

46929 (lichens)  
30 on coconut  
31 trunk

Aug. 3 - west end of island

+32. *Sophora tomentosa* L.

+33. *Mucuna gigantea* (Willd.) DC. ?  
germinated on beach

+34. *Nephrolepis* *biseriata* (Sw.) Schott  
epiphytic on breadfruit tree in breadfruit-coconut forest in interior

Aug. 3 - north side of island

+35. *Hedychium coronarium* L.

+36. *Pandanus tectorius* Park.  
occasional at top of beach in village

+37. *Eugenia* cf. *agave*  
small grove well back of beach in forest

+38. *Canavalia cathartica* Thou.  
common in forest, mostly sterile.

+39 (myxomycete)  
on rotting coconut leaf base.

(to p. 28)

Satawal Island

23

2 m.  
↓

brought by small boy.  
"kolu" or "konu"

presented by local people, origin not seen.

flowers white, fragrant, spreading tree 5 m. tall; fruits beneath tree. "fack"

tree 10 m. tall; fruits green, with small red stipe-like projection at base. "fariap".

vine climbing in trees, flowers from ground, magenta. "walima"

partly a dull orange network, partly globular scarcely stipitate, dull dirty-whitish sporangia.



Aug. 3 - south side of island - conch beach, with a very low erosion ramp of beach rock (?) at its foot, crossed by transverse ridges.

Photos b+w. 3 views of beach, then looking west.

Then 2 close-ups of erosion ramp.

Several higher beach rock strips.

The coconut plantation comes to the top of the beach but has a great deal of undergrowth, to tree size, of *Scaevola*, *Terminalia*, etc. Some *Tournefortia* in a fringe of *Scaevola* at top of beach.

Photos  
2. b+w.  
of beach

Forest undergrowth seems to become more developed and to have more species eastward, but in places has been cleared out. Many young coconut trees, also batches of nuts sprouting, arranged in rows.

Near east end the plantation is young most of trees with trunks 2-4 m. a few

tall old ones. Scattered small *Morinda*, *Guettarda*, *Pipturus*, etc. Ground densely covered by *Polypodium*, with some *Nephrolepis*, *Asplenium nidus*, seedlings of *Morinda*, *Premna*, *Pipturus*, *Ficus*. Coconut litter very abundant. Substratum of coral cobbles.

Photos

Several b+w photos here.

Then 1 farther east of *Asplenium nidus* on coral gravel.

One of interior scene here.

Monitor lizard about .5 m. long on outer pebble ridge slope.

Pebble ridge gradually increasing in ht. eastward to about 2.5 m.

On east end are scattered tall coconuts and scattered very battered *Tournefortia* in a scrub about 1.5 - 2.5 m. high of *Scaevola*, *Wedelia*, & *Clodendrum* incense. Back of this a small grove of *Pisonia grandis*. No undergrowth under it except scattered *Asplenium*.



ridus and a few hanging Wedelia stems that have taken root. Coral cobbles.

Back of that toward the village is a swamp with a few Bruguiers with pink calyxes and a tangle of Acrostichum aureum and Clerodendrum inerme 2-3 m. deep. Completely covers the swamp where not shaded by Bruguiers.

<sup>near</sup> ~~at~~ west end of island under the tall breadfruit and coconuts Nephrolepis is dominant ground cover. Piper fragile is very common and both P. fragile and P. penapense are climbing in many of the trees. Alocasia is common especially in semi-open places. Chateaug is abundant, ranging from a few inches to 8 m. high. Nephrolepis and Polypodium ~~are~~ as well as Asplenium nidus are both epiphytic and abundantly terrestrial.

A few deep pits have Cyrtosperma in them, large healthy looking plants. The holes are 2 or more m. deep, with water in the bottom. No taro patch weeds at all. Some of these serve also as wells, with paths down to water level. One well is cemented over down rather deep, with a narrow slot for dipping up water.

In general aspect the island has the central part occupied by great emergent breadfruit trees ~~the~~ rising above a coconut canopy. Surrounding this is a rather narrow (100± m.) zone of coconut plantation. The east end has fewer coconuts and some areas of tangled forest without coconuts. The extreme end is scrub of Clerodendrum + Scaevola, with some Tournefortia. Small grove of Pisonia and small mangrove depression.

One well here possibly 50 m in from n. shore, water strongly brackish.



28

1965 Caroline Is.

Sulu  
LagoonAug. 3 - near ~~east~~ <sup>east</sup> end  
of island46940. *Achrostichum aureum* L.  
abundant in small  
mangrove depression,  
on peat.2+41. *Bruguiera gymnorhiza* (L.) Lam.  
several trees in peaty  
depression with *Achrostichum*71 42. *Callicarpa candicans* (Burm.) Hochr. 1 m  
common in coconut grove61+43. *Pisonia grandis* R Br.  
small grove at edge  
of forest

44

Aug. 3 - south side of island  
inside forest back of beach2 44. *Athyrium blumei* (Bergth.) Copel.  
rare, terrestrial93+45. *Guettarda speciosa* L.  
occasional73 46. *Artocarpus mariannensis* Trin.  
common2+47. *Barringtonia asiatica* L.  
rare1+48. *Hernandia sonneri* L.  
rare

same - at top of beach

1 49. *Ipomoea pes-caprae* (L.)  
one seedling, only, seen.97+50. *Pemphis acidula* Fast.  
rare 2 or 3 bushes along

Latawal Island

29

0 m

↓

fronds 2 m. tall; from  
short vertical rhizome  
"epéu"tree 8 m. tall, calyx  
pink, petals orange  
"gong"~~tree~~ much branched  
spreading shrub 1 m.  
tall, flowers purple,  
ripe fruit maroon. "ligitar"tree 8 m. tall, trunk and branches  
white; sterile. "moek"

2 m

↓

frond, almost erect from  
short erect rhizome.shrub 3 m. tall, others seen  
taller "muesor"tree at least 30 m. tall,  
buttressed. "mai"small sparsely branched  
tree; sterile "kul"tree 10 m. tall, sterile.  
"orang"

1 m

↓

shrub 1.5 m. tall, much branched  
leaves ashy green-salty, flower white. "engi"



Labels  
typed 30  
with  
46951  
12 +

1965 Caroline Is.

*Triumfetta procumbens* Forst.  
very common both in open  
and shaded

1 52. *Cocos nucifera* L.  
planted all over island

Aug. 4 - left Satawal  
at 9 a.m. Calm sea,  
broken cumulus, strato.  
cumulus and nimbus clouds.  
Wind seems to be from s.e.

Aug. 6 - arrived Ulithi  
at about 8:15 a.m. -  
raining, as usual.

Satawal Is. inc

31

prostrate creeper,  
flowers yellow. "ara"

unbranched tree; panicle  
many-branched, branches  
taken from base; pinnae  
from middle of lower leaf.  
tree "nu" flower "älä".



Aug. 6 - Falalapp Islet  
near airstrip

*Heliotropium ovalifolium*  
var. *depressum* is  
widely distributed  
but not abundant.

*Tidax* very common.  
*Conyza canadensis*  
very common in open  
areas along air strip,  
also *Rippia nodiflora*  
+ *Pennisetum polystachyon*  
+ *Stachytarpheta jamaicensis*.

In taro pits the mud  
is about knee deep.

*Cyrtosperma* is the principal  
plant, but there is considerable  
*Colocasia*.

*Echinochloa colonum*  
common, as well as *E. crus-galli*.

*Ipomoea aquatica*, with  
very fistulose stems,  
locally abundant.

*Gambusia affinis*  
common, intro. from Mogmog.

Common flat gray  
slug with white line  
down back is on

*Cyrtosperma* and *Ipomoea*.

*Ludwigia* to 3 m. tall.

*Vigna* on hummocks  
and trailing into water.

*Ipomoea aquatica* hanging  
eaten fried with meat

Photos north side -  
low hills on erosion ramp  
views of ~~beach~~ and  
boulder ridge both  
directions.

b+w Fringe of *Vigna*, *Ipomoea*  
*per. caprae*, *L. tuba*, *Triumfetta*,  
*Wedelia biflora*  
on cobble beach.

The *Melochia* has  
non-winged seeds.

Aug. 7

Left Ulithi for Woleai  
at 1 a.m.

Forenoon, Aug. 7, wind from  
south east. Bright sunshine,  
abundant scattered  
cumulus clouds.

Aug. 8 - off Woleai at 8 a.m.

Anchored about 9:40.

Went with small boat to  
Falalis I.

The day is almost cloudless,  
brilliantly sunny, hot, calm.



Labels  
typed 34

1965 Caroline Is.

Aug. 6 - Asor Islet  
on coral sand, semi-  
open area back of  
landing

46953 *Hedyotis biflora* (L.) Lam.  
common

1 54 *Spermacoce subfruticosa* Jacq.  
common

Aug. 6 - Falalap Islet  
in coconut plantation

51 55 *Ficus*?  
one tree seen

31 56 *Artocarpus mariannensis* Trac.  
common

41 57 *Cyperus*  
occasional in path

32 58 *Panicum*?  
occasional in path

~~59~~  
2 59 (grass)  
abundant in weedy Taro pit

3 +60 *Acrostichum aureum* L.  
occasional in edges of  
weedy Taro pit

same - in extensive  
*Cyrtosperma* pit.

45 61 *Cyperus odoratus* L.  
common

2 62 (alga)  
common in water

75 63 *Fimbristylis*  
occasional on wet hummocks

Ulithi atoll.

35

2 m



prostrate; flowers  
white, corolla tube  
subglobose.  
erect; flowers white.

2 m



sterile, lactiferous tree  
8 m. tall.  
tree 12 m. tall; sterile

0 m



sterile

tufted



Calcutta  
36

1945 Caroline Is.

46964 *Echinochloa colonum* (L.) Beauv.

0 m

7 common locally

6 65 *Ipomoea aquatica* Forst.  
abundant locally

6 66 *Ceratopteris thalictroides*  
common

8

same - edges of air strip

3 67 *Pandanus tectorius* Park.  
common, forming small groves

1-2 m

67 68 *Fimbristylis cymosa* R.Br.  
common in full sun

2 69 *Melochia*  
occasional

same - in village  
around dwellings

1 70 *Cinnamomum arnabii*  
occasional

2 m

2 + 71 *Chloris inflata*  
very local

5 72 *Amaranthus viridis* L.  
very local

~~22~~ same - upper slope of  
pebble-cobble beach  
on seaward side of islet

4 + 73 *Vigna marina* L.  
abundant in fringe vegetation

Ulithi Atoll

37

stems very fistulose,  
floating, sterile;  
"kangkong" "eaten fried  
with meat"

fertile fronds erect.

spreading tree, "rhizome"  
up on stilts. Fruit on ground  
beneath tree.

tufted

shrub 1 m. tall; flowers with  
crimson centers, white  
edges. Seeds wingless.

scape maroon, slightly  
compressed, 1 m. tall;  
flowers maroon-  
purple outside.

plant brownish green.

creep, flower yellow.



38

1965 Caroline Is.

46974

*Ipomoea pes-caprae* L.  
common in fringe vegetation

to w. 50

Ulithi atoll

39

3 m

extensive creeper,  
flowers rose purple;  
stamens and pistil included.



Aug. 8 - From north ~~east~~<sup>west</sup>, several miles off, the atoll seems to have very considerable land area for its over-all size. The islets, from this direction, give the impression of being predominantly wooded with broad-leaf forest, with few coconuts. Those islets seen across the lagoon give less this impression, but even on them breadfruit trees seem to be dominant, with few emergent coconuts. A subordinate layer of coconuts appears along the lagoon beach.

On an islet about  $2/3$  -  $3/4$  the way ~~south~~<sup>east</sup> on the ~~east~~<sup>north</sup> reef are two tall sharp trees, emergent, near the north end - possibly large Casuarina. This is Marian I.

From the north only the western third of Jalalap I. seems well planted to coconuts. The northern peninsula seems covered by a mixed forest with only young coconuts in it. Tournefortia is abundant in the outer edges of this, with a fringe of

Scaevola, this very irregularly developed and, on the east side, almost lacking. The vegetation along this coast for a distance seems to have been badly battered by a storm or to have suffered from a serious drought. There are many dead or half-dead bushes and trees. The south third of this coast is again dominated by coconuts with a rather beaten and ragged undergrowth. Back a little are emergent breadfruits. Even some of these are almost leafless, though others seem in excellent condition.

Palian I. has abundant coconuts at its north end but the east coast has rather few. Lined with a mixed forest, its outer margins appearing in very battered condition, Scaevola fringe practically lacking. Tournefortia and Pandanus abundant but outermost ones battered



in appearance, as though a small typhoon had lapped the coast.

Large school of Porpoises - gray.

Raur I. has much the same appearance, but in the seaward edges of the forest *Tournefortia* is not at all abundant, while *Pandanus* is most common tree. Some large *Pemphis*, too. Scattered emergent coconuts inland, only a few small ones near coast. Much *Pemphis* at south end.

The reef flat along this coast is rather narrow. It has a linear accumulation of boulders where the algal ridge should be.

In Raur Channel, well inside, a piece of reef with a tiny sand <sup>islet</sup> ~~islet~~ with a clump of young coconut trees, one *Pandanus*. Sand Islet, proper, that separates Raur Channel from Orarai Channel is much larger and has other vegetation, probably *Tournefortia* scrub, as well as a few small coconuts.

On Raur I. just inside the channel along the lagoon shore, is a considerable strip of *Pemphis* forest. Along

the lagoon shore, generally, is rather loose mixed forests with not many coconuts down along the beach. There are many along the islet but well back.

Paliau Islet, also has a strip of *Pemphis* forest along its lagoon shore near south end. The rest of it is rather typical coconut plantation ~~up~~ up to beach. Some thatched houses.

Falalap I. has coconut plantation to beach along the entire lagoon shore.

Two islets west of Falalap have coconuts to lagoon shore. On second one scattered emergent breadfruit. On ~~east~~ east end, and more on west end, a sloping *Scaevola* fringe.

Sand Islet has open *Tournefortia* scrub, with some low coconuts and several larger *Tournefortia* trees toward south end on lagoon side. Is white gravel rather than sand.



Third islet west of  
Falalaf has coconut  
plantation on lagoon  
beach, with Scaevola  
fringe on eastern half.

Next islet, from a  
distance, appears to  
have very few coconuts  
but to be densely wooded.

Next one similar in  
eastern part but  
coconuts and habitations  
along western  $\frac{2}{3}$  of  
lagoon beach. A few  
emergent breadfruits  
toward east end.

Next one, large, is too  
far away, but lagoon  
beach seems lined with  
coconuts, some habitations,  
emergent breadfruits.

Smaller islets to south  
of this seem to ~~be~~ be  
only partly planted to  
coconuts, wooded along  
most of lagoon shore.

Falalis I. seems to have  
about western  $\frac{2}{3}$  of lagoon  
shore lined with coconut  
plantation, with Scaevola  
fringe, eastern  $\frac{1}{3}$  is mixed  
forest with emergent  
breadfruit, a few coconuts.  
Western half has sand  
beach, Scaevola fringe,  
eastern is a gray beach,  
pebbles or cobbles, no regular  
Scaevola fringe.  
Habitations back of western  
half of beach.

The inner half of ~~the~~  
~~the~~ Falalis I. is open  
coconut plantation with  
dwellings. Then a  
large taro pit, at  
least ~~several~~ a number  
of acres in extent,  
probably partly natural  
and partly dug. *Premna*,  
and *Hibiscus*, *Barringtonia*  
*racemosa* around it  
plants seen not collected

*Callicarpa*

*Saccharum officinarum*

*Cocos nucifera*

*Plumeria rubra*

*Tournefortia*

*Scaevola*

*Pemphis*

*Peimium sanctum*



Back of taro pit is dense thicket. No time to investigate this.

In the taro pits *Cyrtosperma* is dominant, but rows of *Colocasia* are planted and carefully tended between the *Cyrtosperma*. Weeds are present but not very abundant.

In lagoon, about 100m out from shore, is a strip of patch reef, bare at low tide. Many corals on surface.

Turtle grass very abundant in shallow water, forming a sod, the rhizomes deeply embedded in sand.

*Halodule* most abundant, *Halophila* next, *Thalassia* least common, its rhizome so deeply buried that they were not dug up intact.

This sod to be seen along lagoon shores of *Falalis* *Wottegai* and *Shiliap* islets. Apparently not at all on *Falalap*.

## Wottegai Islet

Thurf of sea-grasses in front.

*Agave cf. sisalana*, scarcely ~~*any prickles on margins, several plants seen.*~~ <sup>†</sup>

✓ *Bidens* - brought by Japanese

✓ *Vernonia* - since war

✓ *Plumiera* ~~*seata*~~ *seua*

✓ *Ficus* *hawaii*

✓ *Premna* *can*

✓ *Alocasia* *filo*

✓ *Erythrina* *par*

✓ *Calophyllum* ~~*rago*~~ *ragooh*

✓ *Calliandra* *ligita*

*Gambusia affinis* in well

✓ *Azalea* *waluanlios*

✓ *Cosmos* *purang*

✓ *Saccharum* *maki*



✓ *Ocimum* warung warang

~~Detor~~

✓ *Mammea* - liveus

✓ *Cyrtosperma* pulai

✓ *Clodendrum* in habui  
habui

✓ *Term. calappa* bel

✓ *Eugenia* fairaf

Lagoon side of islet is  
open coconut groves & dwellings.  
much *Gyneria*. Village is  
dispersed. Only ~~a~~ a house or two  
together.

*I gnatus* ~~Wichilival~~  
Taro patch very large  
so covered by trees that it  
was impossible to determine  
extent of it.

*Pisonia*, *Morinda*,  
etc on rather  
high boulder ridge.

Taro patches best  
apparently natural  
depressions. *Cyrtosperma*  
is only taro.

Morinda lizard seen on outer  
boulder ridge.

Sholiap Islet.

✓ *Hedyotis* bifl. hōp  
medicinal

✓ *Artemisia* lias, buas

✓ *Gomphrena* waich

✓ *Pennisetum* haingi

✓ *Tournefortia* ~~ched~~  
chel

✓ *Aspl. nidus* ~~sun~~

✓ *Pand. tect* unum-nuha  
bach

✓ *Pand. dubius* pohu

*Ip. tuba* ha vamae

Three zones - one of  
open coconut grove  
along lagoon - dwelling  
scattered in this.

Then an extensive taro  
patch - not continuous  
but more or less so.

Then thick forest, largely  
*Eugenia*, but with  
other things, incl. *Morinda*,  
*Pisonia*, *Barringtonia*,  
*Guetarda*, ~~the~~ breadfruit, etc.  
Tangle of *Scaevola*,  
*Tournefortia*, *Pandanus*



Labels  
typed

Aug. 8 - Fiala's Islet

46975 *Halodule uninervis*?  
3 forming sod in shallow water in front of lagoon beach

same - in open village among breadfruit and coconut trees

31 +76 *Centella asiatica* (L.) Urb.  
locally abundant

21 +77 *Eleusine indica* (L.) Gaertn.  
common

32 +78 *Paspalum conjugatum* Berg.  
common along paths

32 79 *Zoysia tenuifolia* Trin.  
locally abundant

1 80 *Phyllanthus amarus* L. Th.  
common

2 81 *Pilea microphylla* L.  
locally abundant on coral gravel

21 +82 *Triumfetta procumbens* Forst. f.  
local back of beach

4 83 *Fimbristylis cynosuroides*  
common generally

53 84 *Lepturus repens* var.  
common locally

31 85 *Artocarpus altilis* (Park.) Forst.  
common generally

1 86 *Alocasia macrorrhiza* (L.) Schott  
common generally

0 m.

sterile, rhizomes buried.

1-2 m

prostrate, forming a dense mat.

forming mat-like lawn around houses.

prostrate with ascending branches; sterile.

long loose runners, forming mats, large tree

Leaves attaining enormous size, to 2 m. tall or more, glossy green; sterile. "File". Starchy stems an important food, must be thoroughly cooked.



52 1965 Caroline Is.

46987 *Morinda citrifolia* L.

X2 +

common generally

1 88 *Cinnamomum asiaticum* L.

very local, planted

1 +89 *Barringtonia asiatica* (L.) Kunt.

occasional

1 +90 *Hymenocallis littoralis* (Jacq.) Halisb.

common, planted

2 +91 *Hernandia sonora* L.

one tree seen

X1 92 *Pipturus argenteus*

common

same - in coconut - breadfruit  
grove back of village

X2 93 *Nephrolepis cf. biserrata* Sw.

very common

~~84 *Euphorbia*~~

1 95 *Euphorbia chamaesyce* L.

rare in opening

1 +96 *Portulaca samoensis* Prell.

occasional in opening

X1 97 *Hedyotis biflora* (L.) Lam.

common locally in opening

X1 98 *Cenchrus brownii*

occasional in opening

2 99 *Eclipta alba* (L.) Hassk.

occasional in opening

47000 *Cenchrus echinatus* L.

common

Woleai atoll

53

shrub 3 m. tall,

buds white.

rosette; scapes somewhat  
compressed but edges  
rounded, to 1 m. tall;  
flowers white, stamens  
reddish.

small sterile tree.

leaves distichous; scape  
to 1 m. tall, compressed,  
edges sharp; flowers  
white.

small sterile tree

shrub 2 m. tall.

fronds erect from  
short erect ~~stem~~  
rhizome.

plant reddish green

fleshy, prostrate;

flowers yellow.

flowers white.

culm spreading, then  
ascending.

erect, rays white.



54

1945 Caroline Is.

- 47001 *Adenostemma laevigatum* (L.) O.Kt.  
occasional
- x2 02 *Flouya ruderalis*  
common
- x1 03 *Paspalum distichum* L.  
very local
- x2 04 *Polypodium scolopendria* B. var. f.  
abundant, terrestrial  
and on bases of trees.
- 51 05 *Wedelia biflora* (L.) D.C.  
common generally
- 53 06 *Hibiscus tiliaceus* L.  
common
- 42 07 *Premna obtusifolia* R.Br.  
common
- x3 08 *Eugenia*  
occasional
- 43 09 *Allophylus timorensis* Bl.  
occasional
- 1 10 *Ficus tinctoria* Forst. f.  
occasional
- 32 11 *Digitaria*  
very local
- x1 12 *Carica papaya* L.  
common
- x1 13 *Clerodendrum speciosissimum* var. *pauciflorum*  
rare, 2 plants seen
- 6 14 *Euphorbia chamicronis* (Kl. & G.) B. var.  
locally common

Wolear Atoll

55

- heads whitish.
- erect, stems fleshy,  
reddish.
- prostrate, tips ascending;  
sterile.
- sprawling elongate  
resinous-aromatic herb; heads  
yellow.
- small tree, 6 m.  
tall.
- shrub 3-4 m. tall;  
flowers pale green. "ear".  
Wood used for canoe paddles.
- small tree; sterile.  
"fariap" fruit edible.
- shrub 3 m. tall;  
flowers white.
- sterile shrub. "hawan"
- culms decumbent.
- seedling; many larger  
trees seen.
- sterile herb, ill-scented  
when broken.
- erect, tips arching;  
glands greenish yellow,  
no margins or appendages.



Lobelia

same - in and around

0-1 m

~~large~~ extensive taro pit47015 *Cyrtosperma chamissonis* (Schott) Merr. <sup>leaves</sup>  
abundant, dominant crop  
plant.3 16 *Polygonum minus*  
common3 +17 *Lewyia octovalvis* (Jacq.) Rostk.  
common12 18 *Lindernia antipoda*  
common in mud12 19 *Cyperus brevifolius* (Rottb.) Hassk.  
occasional in mud2 20 *Ceratopteris thalictroides*  
common in mud54 21 *Barringtonia racemosa*  
rare, growing in mud1 22 *Colocasia esculenta*  
planted, not abundant.32 23 *Hibiscus rosa-sinensis* x *schizopetalus*?  
planted on margins of4 24 *Cyperus odoratus* L.  
occasional2 25 (mon)  
common on banks of3 26 *Echinochloa crus-galli* (L.) Beauv.  
common in muderect, bright green, up to  
1.5 m. tall. "pula"flowers dull whitish,  
spike green.herb up to 1 m. or more  
tall; petals yellow,  
obcordate, caducous.  
flowers bright lavender.

heads green.

fertile fronds erect

small tree; racemes  
pendent; flowers  
with pink stamens.  
petioles bronze purple.shrub 2 m. tall; flowers  
bright red.

erect



58

1965 Caroline Is.

(Daliap)

Aug. 8 - Sholiap Islet

on lagoon beach

*Pemphis acidula* Forst.

single bush

*Pandanus tectorius* Park.

occasional

same - in very dispersed  
village (~~houses~~ houses widely  
separated).# 29 *Hedyotis biflora* (L.) Lam.locally common on bare  
coral gravel.1 + 30 *Thuarea involuta* (Forst. f.) R. & S.  
common, mostly sterile31 + 31 *Gomphrena globosa* L.  
planted in garden(2) 32 *Artemisia vulgaris* L. <sup>specimen discarded</sup>  
planted in garden5 33 *Eleocharis geniculata*  
local in low damp spot2 34 *Dioscorea alata* L.1 + 35 *Ipomoea littoralis* Bl.  
occasional3 36 *Ischaemum*  
very locally abundant

same - in Taro pit

4 37 *Cyperus iris*  
locally common

Woleai Atoll

59

1 m

↓

shrub 3 m. tall; petals  
white; leaves acid-astringent  
when chewed. "haingi"  
tree 6 m. tall; fruit  
segments picked up on  
ground beneath. "fack"

1-2 m

↓

prostrate, flowers  
white, corolla tube globose.  
"hōp"prostrate, forming  
dense mats,  
heads brilliant  
magenta. "waich"  
aromatic herb. "Liarbwar"

1 m.

1-2 m

extensive twines, sterile.

↓

sterile twines.

culms erect from  
prostrate bases.

0-1 m

stems soft



Salween  
Typical

60

1965 Caroline Is.

47038

*Phelypteris*

very common

63 39

*Ischaemum*

very common

same - <sup>in</sup> dense forest  
between tars pit and outer  
beach ridge

4 40

*Eugenia*

dominant tree

21 41

(vine - arboresc. or mallee?)

occasional, climbing in trees

7 + 42

*Asplenium nidus* L.

locally common, terrestrial

2 43

*Isora casei* Harms

very local

1 + 44

*Ipomoea tuba* (Schlecht.) Don

rare

1 45

*Pandanus dubius* Spreng.

rare, only 1 seen

same - on high outer  
boulder ridge

4 + 46

~~Pisonia~~ *Pisonia grandis* R.Br.

occasional

65 47

*Scaevola taccada* (Gaertn.) Ro. & B.

abundant

1 + 48

*Ipomoea tuba* (Schlecht.) Don

one seedling seen

Woleai Atoll

61

fronds erect

culms erect

tree 10 m. tall; fruits on  
small twigs, reddish,  
pear-shaped. "pariap"  
fruit eaten.

sterile twines.

rosette; "unum nuku"  
used for wrapping food for cooking.  
shrub 3 m. tall; flowers  
scarlet.

sterile twines

sterile tree 6 m. tall.  
"pohu"

small tree, others seen  
quite large, trunk  
cream color; sterile.

shrub 2 m. tall  
flowers dull white;  
ripe fruit white, fleshy.



82

1965 Caroline Is.

- 47049 *Mucuna gigantea* ?  
one seedling seen  
1 + 50 *Tournefortia argentea* L.f.  
common

(Utakai)  
Aug. 3 - Wottagai Islet  
forming dense sod,  
with other species,  
in shallow water in  
front of lagoon beach

- 64 51 *Halodule*  
dominant  
63 52 *Halophila* cf. *minn*  
abundant  
31 53 *Thalassia hemiphradix*  
occasional

same - in scattered  
village in coconut-breadfruit  
plantation

- 1 54 (bamboo)  
planted

- 1 55 *Erythrina*  
probably planted

- 2 56 (moss)  
on base of coconut tree D

- 1 57 *Callicarpa candicans* (Burm.f.) Hance  
rare

- 2 + 58 *Calophyllum inophyllum*  
occasional

Woleai Atoll

63

shrub 3 m. tall, leaves  
fleshy, frosty pale green;  
flowers white. "chel"

0  
2.5 m.  
↓

sterile; rhizome buried in sand

rhizome very deeply  
buried.

1-2 m.

dense clump, culms  
2-2.5 cm thick, about 6-7  
m. tall, arching at tips,  
dark green; culm sheaths  
wrapped around overlapping.  
small sterile tree.

"rai"

pale green cushions

sterile sprout "ligitar"

small sterile tree  
"ragech" - wood used for canoes.



- 47059 *Mammea odorata* (Raf.) Kost.  
rare tree
- 72 60 *Ocimum sanctum* L.  
planted in garden
- 1 61 *Laccharum officinarum* L.  
planted in garden
- 72 + 62 *Asclepias curassavica* L.  
planted in garden
- 2 + 63 *Euphorbia hirta*  
common weed in garden
- 72 64 *Cosmos sulphureus*  
planted in garden
- 3 + 65 *Bidens pilosa* L.  
rare weed in garden
- 43 + 66 *Vernonia cinerea* var. *parviflora*  
common "generally"
- 2 + 67 *Euphorbia cyathophora* Mun.  
rare weed.
- 1 68 *Polyscias scutellaria* (Burm. f.) Fob.  
planted in garden
- 1 + 69 *Tacca leontopetaloides* (L.) O.Ktze.  
occasional
- 71 70 *Vitex negundo*  
rare, planted
- 1 + 71 *Caesalpinia pulcherrima*  
rare, planted
- 4 + 72 *Muntingia calabura* L.  
rare, one seen near dwelling
- 7 + 73 *Guettarda speciosa* L.  
occasional

- sterile tree 10 m. tall.  
"liveus"
- ~~at~~ herb 6 dm tall, very  
aromatic, stems and  
raceme purple. "warung" or "warang"  
cane 1 m. tall, purple; sterile  
"make"
- herb 1.5 m. tall; corolla  
red, corona orange.  
"waluwantios"
- herb 1.5 m. tall, rays orange.  
"purang"  
"came in in Japanese time"
- heads purple. "came in since  
World War II."  
bracts red at base.
- shrub 1.5 m. tall, strong  
odor when broken.
- ~~flower~~ scape 1 m. tall,  
leaves basal 0.7 m. tall,  
blade complex; flower  
green, filiform bracts  
blackish purple.  
shrub 2 m. tall; fruit  
immature.  
used medicinally.
- shrub 1 m. tall; flowers  
scarlet.
- shrub 3 m. tall; flowers  
white.
- shrub 3 m. tall; sterile.



- 47074 *Clerodendrum inerme* (L.) Gaertn.  
occasional
- 32 75 *Zoysia tenuifolia* Trin.  
abundant
- 1 +76 *Plumeria rubra* L.  
occasional
- 4 +77 *Vigna marina* (Burm.) Merr.  
common
- 1 +78 *Zephyranthes rosea*  
rare, planted in garden
- 4 79 *Dodonaea viscosa* L.  
one tree seen on lagoon beach, said to be only one on island.
- 1 +80 *Terminalia catappa* L.  
one tree seen on lagoon beach, said to be common.
- 6 81 ~~*Lygodium*~~ *Thelypteris*  
very common  
same - in extensive two marsh
- 32 82 *Fuirena umbellata*  
common
- 3 83 *Hedyclium coronarium*  
local
- 2 84 *Canna* (ornamental hybrid)  
local
- 32 +85 *Acrostichum aureum* L.  
occasional

"nabii" tangled shrub 2 m. tall  
flowers white, stamens  
dark purplish maroon.  
forming extensive close  
mat-like lawns.  
thick-stemmed shrub,  
latex abundant; flowers  
fragrant, white with  
yellow center, flushed  
with purple outside. "semi"  
creeping; flowers yellow.

sterile tree 3 m. tall.

battered small sterile  
tree. "kel" seeds said to be edible.

0-1 m



fronds erect.

herb to 1.5 m. tall, buds white

herb to 2 m. tall; flowers  
yellow spotted with red.  
fronds to 2 m. tall.



Aug. 10 - Falalap Islet

slugs are more or less  
omnivorous - eat  
plants generally,  
cluster around base  
of coconut trees in track  
(Boyskin)

"Trunk lime" (round)  
intr. by Frank Johnson.

Area intr. to ~~Fal~~ Asor  
by students several  
years ago. Trees on  
Falalap are older.

Salvage  
Cypripedium

Aug. 10 - Falalap Islet  
in village

H 7086

x 2

*Cypripedium byllingia*  
one tiny colony in Goyia lawn

83 87

*Cassia*  
one plant seen

same - at landing place

43 88

*Euphorbia charnissensis* (Kl.)  
in sand

Aug. 11 left Ulithi for  
Eauipik 1 a.m. Arrived  
about 8 a.m. Aug. 12.

Asor -  
*Passiflora edulis* intr.  
by <sup>Frank</sup> Johnson 1961.

1-2 m.

↓

heads white.

branched shrub 1 m. tall,  
flowers yellow.

1 m.

(Kl.) Boiss.

Prostrate (all seen were  
prostrate), lactiferous; leaves  
white beneath; glands yellow-  
green, without margin or  
appendage.



Aug. 12 - Eauripik - two main islets thoroughly planted to coconuts

Three tiny ones - 2 with coconut groves with Pemphis + other shrubs, one of them apparently with a Pisonia tree. This one with peripheral ring of platform rock undercut and almost forming mushrooms.

This one is at eastern end. Other very tiny one with one coconut tree and a Tournefortia bush.

On main (eastern) islet the breadfruit trees just overtop coconuts in interior.

✓ Fimbristylis c. puga

✓ Polypodium tsitsi

✓ Calophyllum { ravich  
sevan  
wood used for canoe fittings

✓ Asplenium n. unname

✓ Barringtonia as. hul

✓ Wedelia wal  
used medicinally

Terminalia s. bil  
used medicinally seed eaten

Lepturus puga

Premna e. ear  
wood very hard used for paddles  
and medicinally also

Ochrosia uma  
used for paddles + oars.

Scaevola - rema  
used medicinally

Pandanus tot. hoch  
matting & canoe sails  
wood used for house

Morinda lel

Cinnam. hiop

Hymenocallis liris

Hernandia hochal  
bark used for medicine  
for babies when sick.

Cratogeomys afuch

Cladodend. nam habui  
used to make fish traps

Alocasia file

Pisonia "mq"



- ✓ *Achyroanthus* hoho
- ✓ *Zoysia* ? pugu
- ✓ *Carica* mawai
- ✓ *Cuminum* <sup>proven</sup> ~~ambak~~ hiob
- ✓ *Ipomoea bat* homot
- ✓ *Pep. pel* opul? hongkong
- ✓ *Euc. max.* calavas
- ✓ *Ip. pes-caprae* harabural
- ✓ *Tournefortia* chel
- ✓ *tarinari* pach  
"ear of thunder"
- ✓ *Musa* bewich
- ✓ *Artocarpus* <sup>man.</sup> ~~alt.~~ mai
- ✓ *Ficus* wotser
- ✓ *Ficus tincl.* kawas  
fruit eaten
- ✓ *Pteris* ~~poupa~~  
pöpo

- ✓ *Pipturus* aroma  
last fiber used for cordage + on lavalava
- ✓ *Guettarda* wat  
medicine + canoe paddle
- ✓ *Cyrtosperma* puala  
puala
- ✓ *Soulamea* marat
- Calophyllum* is very common, more so than breadfruit
- ✓ *Eugenia* farias  
fruit eaten
- ✓ *Capricorn* maig
- ✓ *Port. sam* hōp
- ✓ *Nephrolepis* ~~inunung~~

large well, not far  
perhaps 40m. from south  
side of islet, doubly  
walled



used for  
drinking

also ↑

number of smaller wells



both used medium  
*Pilea* *mic.* *avil* *hachis*  
 (small plant)  
*Flemingia* *habalifat*  
*Digitaria* *purba*  
*Plumeria* *seu*

Very large *Pisonia* tree on small bit of higher ground. People used to pray to it, also to a small coral boulder nearby - not at all a special looking boulder.

Fairy Terns and white capped noddies numerous in *Pisonia* and breadfruit trees.

*Eragrostis tenella* *pugn*  
*Allophylus* *nge*  
*Trumpfella* *harak*

photos kod & b+w several views of taro pit

Ferns around bases of coconut trees. A few odd patches of natural veg. near beaches.

## Liding Islet

*Term. san.*  
*Pemphus* *haingi*  
*monda* *wood used for part of loom*  
*Coron*  
*Guettarda*  
*Polypodium*  
*Tournefortia*  
*Flemingia*

photos kod & b+w of raised underent platform surrounding islet. end of b & w. roll 2

*Scaevola*  
*Fimbristylis*  
*Asplenium nidus*  
*Lophos. tom.* *hulab*

~~Atoll~~ This islet is a platform of conglomerate, possibly somewhat phosphatized (sample) underent around edges, covered by coral debris in interior. Periphery almost dominated entirely by *Pemphus* 3-4 m. tall, considerable *Terminalia* esp. somewhat more inland, and also under coconut trees. *Scaevola* & *Tournefortia* scattered, less *Guettarda*,



and Morinda.

Fimbristylis on ground  
on platform in sun,  
Lepturus in shade.

Polypodium and Asplenium  
abundant inland.

Sophora - one small  
plant. (said to be more  
abundant on other  
small islet to west)

Several *Pisonia* trees  
in center. *Ficus tinctoria* with  
them.  
One tiny plant of *Lepturus*.

Vincent S. Sarongcheg  
John R. Hagilelgam

*Ip. tuba*                      *ye awamas*

*Tern catappa*      *kel*

*Cannavalia*              *walamak*

*Curcuma*              *Teran*  
(rose bracted)

used medicinally,  
flowers for leis.

*Cassytha* is lacking,  
also *Colocasia*.

*Vigna* - *hōlu*

*Thalassia* *som*

Eauripik Islet is  
almost entirely covered  
by a rather scattered  
village. There are  
coconut trees everywhere,  
with scattered *Calophyllum*.  
Breadfruit trees are  
common in the central  
part. A deep taro pit,  
with *Cyrtosperma*  
and bananas in it  
is near the center. There  
is apparently not a  
single weed in it.  
*Lomegrass*, *Pleurysa*,  
*Pilea*, *Premna* on  
banks. *Digitaria*.

A huge *Pisonia* tree  
near it, formerly  
a sacred tree - offerings  
placed there. A small  
coral boulder nearby  
also sacred.

Houses here are small,  
but very well built.  
Built on platforms  
of shaped stones.  
Stones are cut from reef,  
shaped with axe (edge?)  
and brought on raft  
to house site.  
Here a row of these  
platforms.

Photos



with  
M. Evans  
(thru 47154)

47089  
42+

Aug. 12 - Siding Islet  
in narrow strip of  
scrub around coconut  
grove on elevated reef rock  
*Pemphis acidula* Forst.  
dominant shrub

31+90 *Morinda citrifolia* L.

occasional

63+91

~~*Terminalia*~~ *Terminalia samoensis* Rech.  
common

63 92

*Scaevola taccada* (Gaertn.) Roxb.  
occasional

33+93

*Guettarda speciosa* L.  
occasional

9

3+94

*Sophora tomentosa* L.  
rare, one small plant seen

14 10 95

*Ficus tinctoria*  
several plants in coconut  
plantation in center of islet

1.5 m

shrub 2.5 m. tall; leaves  
slightly acid and  
astringent when chewed.  
flowers white. "haingi"  
wood used for part of loom.  
shrub 2 m. tall. "lel"

shrub 2 m. tall, fruit  
immature. "kil" fruit  
said to be eaten.

shrub 2 m. tall; flowers  
and ripe fruit white.  
"rema" used medicinally.

small tree 3-4 m. tall;  
flowers white. "wut"  
used medicinally and  
wood for canoe paddles.  
sterile shrub. "hurlab"  
said to be plentiful on  
another small islet.

sprawling shrub,  
4 m. tall, ripest fruits  
orange. "kawan"



Islands  
Aug 80  
70E

1965 Caroline Is.

Eauripik atoll 81

- 47096 10 Aug. 12 - Eauripik Islet  
*Thalassia hemprichii*  
abundant, forming  
dense sod in shallow  
water, on sandy bottom,  
in front of lagoon beach
- 43+97 same - lagoon beach  
*Vigna marina* (Burm.) Merr.  
very local, one patch seen
- 3 98 same - coconut - breadfruit  
forest on east end  
*Eugenia*  
occasional
- 45+99 *Portulaca samoensis* v. Poelln.  
very abundant, carpeting  
ground, in opening  
made by breadfruit  
trees thrown by typhoon
- 47100 3 + *Eragrostis tenella* (L.) Beauv.  
very local in ~~open~~  
full sun in opening
- 6 01 *Allophylus timorensis* Bl.  
one bush seen in sunny  
opening
- 4 + 02 *Eleusine indica* (L.) Gaertn.  
locally common in  
sunny opening.
- 6 + 03 *Triumfetta procumbens* Forst. f.  
locally common
- 3 04 *Lepturus repens* var.  
occasional along paths
- 3 + 05 *Ochrosia oppositifolia* Lam.  
occasional

- rhizomes deeply buried,  
brittle. "som"
- creeper; sterile.
- tree 8 m. tall, sterile.  
"pariaf" fruit eaten.  
fleshy, prostrate;  
flowers yellow. "ho" "hop"
- "puga"
- shrub 1.2 m. tall; flowers  
white, fruit immature.  
"nge"
- "karak"
- Lactiferous tree 8 m. tall.



Calcutta  
7+8

same - in open  
village shaded by  
coconut and breadfruit  
trees.

47106  
2+

*Hernandia sonna* L.  
uncommon

4 07

*Fimbristylis cymosa* R.Br.  
abundant generally,  
especially in semi-  
open places

65+08

*Polypodium scolopendria*  
abundant generally  
terrestrial.

Burm. F.

3 +09

*Calophyllum inophyllum* L.  
common generally

4 +10

*Asplenium nidus* L.  
common generally,  
mostly terrestrial

2 11

(moss)

common on coconut trunks  
*Barringtonia asiatica* (L.) Kurz  
occasional

13+13

*Wedelia biflora* (L.) DC.  
locally common

44 14

*Lepturus repens* var.  
generally common

1 +15

*Morinda citrifolia*  
uncommon

1 16

*Premna obtusifolia* R.Br.  
occasional

1-9 m

sterile shrub 2  
m. tall. "hochol"  
bark used for medicine  
for sick babies.  
tufted, culms ascending.  
"pugo"

rhizome creeping,  
occasionally climbing trees.  
"titsi"

shrubs, others seen  
trees 20 m. tall; sterile.  
"revich", "navich", "sevan", "bitun" all three  
wood used for canoes.  
rosette "ununu"

forming palegreen cushions.  
"lun"

small sterile tree.  
"hul"

spreading resinous  
herb; heads yellow.  
"wal" used medicinally

forming loose mats.

sterile shrub

shrub, all seen sterile



84  
70E

1945 Caroline Is.

47117

*Crinum asiaticum* L.

planted

1 +18

*Hymenocallis*

planted, common

1 +19

*Pseuderanthemum caruthersii*  
var. *atropurpureum* (Bull.) Forst.

planted

21 +20

*Clerodendrum inaequalis* (L.) Jacq. M.  
occasional

1 21

*Alocasia macrorrhiza* (L.) Schott & Walp.  
common

43 22

*Joyisia tenuifolia* Trin.  
locally common

1 +23

*Pisonia grandis* R.Br.  
occasional

1 +24

*Carica papaya* L.  
occasional

1 25

*Crinum procerum*  
occasionally planted

21 26

*Ipomoea batatas* (L.) Lam.  
planted

1 27

*Cucurbita maxima*  
planted

1 28

*Peperomia pellucida*  
rare, on house platform

Caunpik atoll

85

rosette, sterile; flowers  
said to be white. "hiol"  
sterile; leaves distichous

shrub to 2 m. tall, leaves <sup>maroon</sup>  
flower deep pink.

tangled shrub: flowers  
white with maroon stamens.

plants reaching 2 m.  
tall; sterile. "filä"

forming mat-like lawns.  
"puga"

small tree, an enormous  
one seen. "mog", ~~this~~ this  
large one formerly worshipped  
as a sacred tree.

small seedling others  
seen ~~as~~ small trees  
"waiwai"

rosette and scape 1.5 m.  
tall, flowers purplish  
red outside "hiol"

creeper, sterile <sup>flowers used for</sup>  
"homote" is correct.

extensive creeper,  
leaves with gray  
spots in vein axils,  
flowers orange.

"calavas"

fleshy

"opul kongkong"



Labrid  
86  
2+E

1945 Caroline Is.

47 29  
1 +

*Ipomoea pes-caprae* (L.) Sweet  
very local

1 +30

*Tournefortia argentea* L.f.  
uncommon

1 31

*Artocarpus mariannensis* Tree.  
common

1 32

*Pteris tripartita*  
occasional

4 1 33

*Pipturus argenteus*  
occasional

2 34

*Artocarpus altilis* (Park.) Forst.  
common

8 2 35

*Cratogeomys speciosa* Volk.  
common

5 4 36

*Ficus*  
occasional

1 37

*Cyrtosperma chamissoi* (Schott) Merr.  
common in deep pits

1 +38

*Capricorn putrescens* L.  
occasional, planted

5 39

*Nephrolepis biserrata*  
locally abundant

6 +40

*Souramea amara* L.  
local, occasional

*Cyrtosperma* *maritima* (Hassk.) Schott  
det D.H.N. (45) 6/1958

Rapiripik Atoll

87

creepers, sterile.  
"harabwal"

"chel"

shrub 2 m. tall; leaves  
fleshy green, fleshy; sterile.  
tree 25 m. tall.

(leaves picked from ground). "mai"  
fronds erect from a  
short erect rhizome. "popo"  
shrub 1.5 m. tall "aroma"  
bark used in making lime,  
also for fine lava-lavas.

large tree, lactiferous.  
"mai"

small tree 6 m. tall;  
flowers whitish turning  
yellow, stamens dark red.  
"abuch"

tree 10 m. tall, figs on  
trunk and larger branches  
borne on ~~small~~ dwarf  
branches. "wotsei" figs cooked  
and eaten.  
leaves to 2 m. or more tall.

"wula" or "pula"

shrub 1 m. tall; flowers  
white, fruit scarlet.  
"muig"

fronds erect to spreading  
from short erect rhizome.  
"inunug"

shrub 3 m. tall; flowers  
white, fruit green.  
"marat"



Salisbury  
88

typical 7+2

47141

43

1965 Caroline Is.

*Pilea microphylla* L.

common on steep ~~coastal~~ <sup>crags</sup> of taro pit

54+42

*Eleocharis ruderalis*

common on steep banks of taro pit

4 43

*Digitaria*

common on steep banks of taro pit

76 44

*Achyranthes*

common on banks of taro pit

1 +45

*Plumeria rubra* L.

occasional, planted

44

1 46

*Xanthosoma sagittifolius*

1 +47

*Musa sapientum* L.

common, planted

1 48

*Canavalia*

rare

2 +49

*Terminalia catappa* L.

rare

2 +50

*Ipomoea tuba* (Schlecht.) Pon

rare

1 51

*Curcuma*

rare (said to be common on other islet)

2 (52

mon

2 (53

mon

on stones

1 54

*Polyporus*

on coconut-log.

Eauripik Atoll

89

fleshy stemmed:

"awil pachi" to "small plant"

used medicinally

stems fleshy, reddish.

"hafalifal" used medicinally

"puga" or "puka"

branched herb, 1 m. tall.

"hoho"

small tree 3 m. tall;

flowers pinkish cream-yellow.

"seu" flowers used for garlands.

sterile herb, leaves

glaucous

herb 4 m. tall, inflorescence

pendent, bracts maroon,

flowers whitish, fruit

immature, "bwich"

sterile twines, climbing

in small tree.

shrub 2 m. tall; sterile.

"kel"

sterile twines.

rhizome yellow, aromatic.

"tarinari pachi" <sup>ch</sup> "n. ear of thunder"



Labridae group  
4R7 90

1945 Caroline Is.

48155 Pandanus tectorius Park.  
occasional

1 56 Polyporus  
common on rotting coconut logs

2  
24. 57 mosses } lost  
58 " } in fire  
59 " }  
60 " }  
61 " }

on coconut trunks

12 62 lichen  
63 "  
64 "  
65 " }  
66 " }  
67 " }

on coconut trunk

Eaurihik Atoll

91

tree 6 m. tall, fruit  
picked up on ground beneath  
it. "fachi" fruit said  
to be eaten.



## Ifaluk

- ✓ *Vigna* - holu
- ✓ *Ipomoea littoralis* chairwood
- ✓ *Pilea* no name
- ✓ moss luma loom
- ✓ *Ficus tinet.* hawan
- ✓ *Timb. cymosa* pugas
- ✓ *Alcorno* fili  
eaten.
- ✓ *Centella* hara  
hara hara name
- ✓ *Oplismenus* pugas
- ✓ *Calophyllum* nagich  
wood for making canoes
- ✓ Coconut lu (ordinary)  
edible bush var. atol or luma
- ✓ *Lepturus* woramar
- ✓ *Hedyotis bifl.* opakjal

## Ifaluk Atoll

- ✓ *Neph. bis.* hamara
- ✓ *Ip. balalan* hamote
- ✓ *Allophylus* ngoy
- ✓ *Premna* ein
- ✓ *Cyrtospermum* pura
- ✓ *Carex* waiwai
- ✓ *Artocarpus* mai
- ✓ *Tacca* <sup>mohamoh</sup>  
~~meg meg~~
- ✓ *Dioscorea bulb.* walumiao
- ✓ *Hib. til.* hilifer
- ✓ *Asplen. undul.* ilun nu
- ✓ *Piper fragile* hata to bue  
used medicinally
- ✓ *Eugenia* farias
- ✓ *Ipomoea* hatio
- ✓ *Pipturus* anoma
- ✓ *Polypodium* chicki
- ✓ *Adenos. luma* atus'iot



Ananas stinky not coll.

Callicarpus?

✓ Wedelia atiot

✓ Convolvulaceae. aluma

2 fairy terns, 1 booby bird  
1 common noddy

✓ Guettarda root

✓ Tournefortia chel

✓ Scaevola nema

✓ Pandanus bach

In interior many large breadfruit trees are down, leaving small openings along beach ridge the Tournefortia, Scaevola, Guettarda, have a very battered look. Said to have been a typhoon in 1964.

Reef flat on east side not more than about 100 m wide. Large boulder

ridge, about 4 m. high and very wide line the shore.

In interior Eugenia is one of principal components of forest. fruit is very slightly obovoid, red, with little sweetness.

✓ Thonnoa tuba walisma

✓ Crateroa abuch

✓ Hib. hyb. poacha

✓ Cup. cham. hoi chich

G.S. Glexine 12 Dec 1964  
bound for Japan  
off New Guinea

please write

J. Bartley

91 Telford Rd.

Sunderland

England

On passing Cairns Australia  
for Nagoya, Japan. And Merry  
Xmas & Happy New Year to you  
J. Bartley and Eng. Office



Lagoon half of island is open scattered village, with widely separated houses, here and there a small cluster. *Zoysia* lawn.

Back of this pig area and some small *Cyrtosperma* patches. Mostly breadfruit - coconut groves. Back of this *Eugenia* becomes abundant, along with breadfruit, fewer coconuts. Many breadfruit trees down here, leaving openings.

Broad strip of boulder ridge near seaward beach is coconut - breadfruit - *Eugenia* - *Guettarda* etc.

Ferns generally abundant, esp. *Nephrolepis* & *Polypodium* least so in village. Top of beach - *Tournefortia*, *Scaevola*, *Guettarda*.

- ✓ *Colocasia* ot
- ✓ *Operculina hirsellum* havamash

Cyrtosperma is the most abundant crop but some strips are planted to *Colocasia*.

- *Chr. Anemum* habui

Musa wish

On Falalap Islet the part near lagoon and channel beach is village. Back of this is a very large taro marsh - apparently a natural marsh or ~~to~~ filled pond, rather than an excavated pit, as there does not seem to be any debris pile on steep banks. The peat soil is reasonably firm but quakes if jumped on. This marsh is cultivated in narrow strips, and apparently some sort of crop rotation is practiced. A unique feature is that some strips are planted to sweet potatoes. Different strips show different degrees of weediness. Ornamentals are planted here, as in other atolls, but in addition to the expected *Hedychium*, *Canna*, etc. *Gomphrena* and *Acimum* are planted and tended. The sweet potato plants, as well as the *Gomphrena* and *Acimum* here are far healthier looking than in low land.



Salvage  
tagged

1965 Caroline Is.

Aug. 13 - Ifaluk Islet -  
in ~~discovery~~ village, shaded  
by coconut and breadfruit  
trees

47168

(moss)

2

very common on ground and  
stones

6 + 69

*Polypodium scolopendria*  
common, climbing on tree trunk

3 + 70

*Barringtonia asiatica* (L.) Kunt.  
occasional

2 + 71

*Oshrosia oppositifolia*  
occasional

65 + 72

*Morinda citrifolia* L.  
common

12 73

*Ocimum*  
planted, in full sun.

3 + 74

*Gomphrena globosa* L.  
planted, in full sun.

1 75

*Citrus aurantifolia* (Christm.) Swingle  
planted, in full sun.

1 + 76

*Nicotiana glauca* L.  
planted, in full sun.

1 + 77

*Caesalpinia pulcherrima* (L.)  
planted, in full sun

3 + 78

*Capsicum frutescens* L.  
planted, in full sun

4 + 79

*Flemingia strobilifera*  
in open place

1 80

*Cucurbita maxima* L.  
planted, in sunny place.

Ifaluk atoll

1-2 m



"~~low~~" "lom"

"gigi" (chigi?)

tree 10 m. tall, sterile.  
"hol"

small lactiferous tree,  
sterile.

shrub 2.5 m. tall  
"lel"

aromatic, very chlorotic  
herb. "warming wan"

branched herb, heads  
magenta. "waich"

shrub. "hologul"

herb, 1 m. tall, flowers pink.  
"tamach"

shrub 1 m. tall, flowers  
scarlet. "warapiq"

shrub, 1 m. tall, flowers  
white; fruit scarlet.

"ming"

stems fleshy, red.

"havalavat"

extensive creeper, leaves  
with grayish spots in  
vein axils; flowers orange.



Selected  
100

4965 Caroline Is

47181  
1 +

*Tacca leontopetaloides* (L.) O.Ktze

44 + 82

*Portulaca samoensis* v. Poelln.

locally very common  
in garden, in sun.

3 + 83

*Eragrostis tenella* (L.) Beauv.

local, in garden

4 84

*Cenchrus brownii*

abundant locally  
along path

34 + 85

*Vernonia cinerea* var. *parvifolia*

common locally

8 86

*Euphorbia chamissonis* (Kl. & Gke.) Boiss.

common locally

6 + 87

*Thuarea involuta* (Forst.) R. & S.

very local

6 88

*Fimbristylis cymosa*

very common

56 89

*Zoysia tenuifolia*

abundant, forming lawns

6 + 90

*Quettarda speciosa* L.

on beach

56 + 91

*Muntingia calabura* L.

common

6 + 92

*Hibiscus tiliaceus* L.

common

93

*Achyranthes*

occasional

Ypaluk Atoll

101

leaves 1 m. tall, scape

1.5 m. flowers green.

"mohamok"

prostrate, fleshy,

flower yellow.

culms erect.

heads purple.

stems erect, tending to

arch at tips. "hani harenaf" or "hoichich"

forming a dense mat,

flowering branches

erect bending down in

fruit. "bugol"

tufted "bugol" "pukar"

mat-like. "bugol"

small tree, flowers

white, fragrant "ot"

small umbrella-shaped

tree; flowers white, fruit

immature "sugar"

small tree, leaves

white beneath "hiliroi"

small shrubs "hilifer"

small shrubs peeled for fiber.

slender branched herb  
1.5 m. tall. "ha'ha"



102

1965 Caroline Is.

47194

*Pteris tripartita*

occasional

6 95

*Cratogeomys speciosa* Volk.  
common

2 96

*Saccharum officinarum* L.  
planted in garden

6 + 97

*Catharanthus roseus* (L.) Don  
very common in gardens

4 98

*Cosmos sulphureus*  
common in gardens

74 + 99

*Eleusine indica* (L.) Gaertn.  
common garden weed

47200

*Hibiscus rosa-sinensis* x *schuyfpetalus*  
occasional just back of village

same - outer boulder  
ridge

75 + 01

*Vigna marina* (Burm.) Merr.  
common

1 02

*Kleinovia*? *diversa*?  
seedling on pebble beach

1 03

*Entada*  
seedling on pebble beach

4 + 04

*Ipomoea tuba* (Schlecht.) Don  
rare at edge of scrub

3 + 05

*Tournefortia argentea* L.f.  
common

3 06

*Pandanus tectorius* Park.  
common

Ibaluk atoll

103

rhizome + fronds erect. "paposa"

small tree 6 m. tall,  
petals white, turning  
yellow; stamens reddish.  
"abuch"

cane purple, to 0.7 m. tall.  
children seen eating it.  
flowers white.

herb to 1.8 m. tall; rays  
bright orange.

shrub 2.5 m. tall,  
flowers scarlet. "poacha"

3 m.

creeper, flowers yellow.  
"holu"

2 m

↓

creeper, sterile. "walima"

3 m.

"chul"

3 m

rather battered small  
tree, leaves frosty green,  
fleshy, flowers white.  
spreading tree 5 m. tall,  
fruits globose, phalanges  
picked up on ground  
beneath "fack"



- 47206a *Guettarda speciosa* L.  
common
- 52 07 *Scaevola taccada* (Gaertn.) Roxb.  
common
- 2 1408 *Canavalia cathartica* Thunb.  
very local
- 102 09 *Wedelia biflora* (L.) DC.  
locally common
- 1 10 *Adenostemma laevigata* (L.) Ktze  
rare
- 6 11 *Polypodium scolopendria* Burm. f.  
very common, terrestrial
- 103 12 *Allophylus timorensis* Bl.  
common in undergrowth
- 13 ~~Pipturus~~
- 44 13 *Pipturus argenteus* (Forsk. f.) Wedd.  
common in edges of openings
- 13 10 14 *Piper fragile* Benth.  
common, climbing on tree trunks
- 5 15 *Eugenia*  
very common
- 45 16 *Piper fragile* Benth.  
common, climbing on tree trunks
- 1 17 *Ixora coccinea*  
very common in undergrowth

- sterile tree, battered by typhoon. "woot"
- shrub 2 m. tall, flowers and ripe fruit white.  
"nema"
- sterile vine climbing in trees. "aluma"
- shrub 2 m. tall, flowers white; fruit immature.  
"ngor"
- shrub 3 m. tall.  
"aroma"
- vine, somewhat aromatic when broken; spikes white.
- tree 10 m. tall; fruit reddish, subglobose to somewhat obovoid, not very sweet but pleasant in flavor and texture. "fariaf."
- sterile vine. "hata ho bue" used medicinally
- shrub 3 m. tall, buds red.  
"hatio" flowers used for garlands and personal adornment.



- 47218 *Asplenium nidus* L.  
common, terrestrial and  
epiphytic
- 3 19 *Dioscorea bulbifera* L.  
occasional
- 32 20 *Artocarpus altilis* (Park.) Forch.  
common
- 1 21 *Cyrtosperma* <sup>merkusii (Hassk.) Schott</sup>  
det DMN:als- (HS) 6/1998  
planted in small marsh
- 2+22 *Carica papaya* L.  
common
- 4 23 *Hedyotis biflora* (L.) Lam.  
abundant, in shaded  
place
- 47 24 *Oplismenus compositus* (L.) Beauv.  
abundant
- 12 25 same - in village  
*Ipomoea batatas*  
planted
- 1 26 *Premna obtusifolia* R.Br.  
abundant
- 7 27 *Nephrolepis biserrata*  
abundant
- 12 28 *Hedyotis biflora* (L.) Lam.  
abundant along paths
- 4 29 *Lepturus repens*  
common along paths

rosette, frond ascending  
to erect. "ilun nu"

1-2 m  
↓

sterile twines "waluma'o"

sprout from a <sup>very</sup> fallen  
tree, sterile. "mai"

leaves erect, sterile,  
others seen much larger.  
"pura"

seedling, 1 m. tall  
sterile. "waiwai"

flowers white. "opujal"

flowering culms ascending.  
"pugai"

very chlorotic <sup>H</sup> "hamoti"

sterile shrub (all seen  
sterile) "eai"  
fronds erect from erect  
rhizome "hamara"  
flowers white

tufted, with stolons  
"woramai"



- 47230 *Calophyllum inophyllum* L.  
common tree
- 31 *Centella asiatica* (L.) Urb.  
very common
- 32 *Alocasia macrorhiza* (L.) Schott  
very common
- 33 *Ficus tinctoria* Forst. f.  
occasional
- 34 (mass)  
cushions on coconut trunks
- 35 *Pilea microphylla* L.  
very common on ground  
and on bases of coconut trees
- 36 *Sporobolus littoralis* Bl.  
common
- 37 *Casuarina filiformis* L.  
very local, back of beach
- same - in shallow water  
on sand bottom in front  
of lagoon beach and in  
channel
- 38 ~~*Halodule*~~ *Cymodocea rotundata* Aschers.  
abundant, principal  
component of sod
- 39 *Halophila ovalis* (R.Br.) Hook. f.  
minor component of  
sod
- 40 *Thalassia hemprichii* (Ehrenb.) Aschers.  
minor component of  
sod

- tree 12 m. tall, sterile.  
"ragich" wood used for canoes.  
prostrate "hara" or  
"hara hara nune"  
other plants much larger.  
all seen sterile "filö"  
rhizome eaten.  
sterile shrub (others  
seen much larger) "hawan"  
"luam" or "loom"  
stems fleshy  
sterile twines. "chainol"  
leafless, green stems,  
flowers white.  
- 0.5 m  
↓  
sterile, rhizome buried  
but not deeply.  
sterile  
rhizome deeply buried,  
brittle



110

1965 Caroline Is.

Savanna  
ForestAug. 13 - Talalap Islet  
in village

47241

*Hibiscus tiliaceus* var. ?  
local

44 42

*Operculina turpethum* (L.) Morson  
one plant seen

1 43

*Colocasia esculenta* (L.) Schott  
planted on dry land  
(also seen in taro pit)

2 + 44

*Ipomoea littoralis* Bl.  
locally common

in opening back of village

1 + 45

*Clerodendrum inerme* (L.) Gaertn.  
local in thicket back of  
village

46

same - in large taro  
marsh, peaty soil

1 46

*Columella trifolia* (L.) Gaertn.  
rare in edge of

2 47

*Ocimum sanctum* L.

common, probably planted

1 + 48

*Gomphrena globosa* L.occasional, probably planted  
(purple form more common)

4 49

*Ipomoea batatas* (L.) Lam.planted as an important  
crop.

2 50

*Hedychium coronarium*

local, planted

3 51

*Canna* (hybrid)

local, planted

6 52

*Cyperus*

common to abundant

Ifaluk Atoll

111

1-2 m.

↓

shrub 4 m. tall,  
leaves green beneath;  
sterile.sterile twines, stems  
sharply angled. "havamari"  
sterile. "ot"

flowers rose purple

Tangled shrub; flowers  
white, stamens maroon.  
"habui"

0-1 m

↓

aromatic herb, racemes  
purple, flowers pale.  
heads white.creeper with ascending  
branches; sterile.

sterile

flowers bright yellow.

tufted, culms sharply  
triangular.



112

1965 Caroline Is.

- 47253 *Ischaemum*  
X5 locally abundant
- 84 54 *Paspalum distichum* L.  
locally common
- 65 55 *Lindernia antipoda*  
common on open mud
- 9 56 *Ceratopteris thalictroides*  
very common
- 6 + 57 *Ludwigia octovalvis* (Jacq.) Raven  
very common
- 3 58 *Thelypteris goggilodes*  
occasional
- 4 59 *Polygonum minus*  
locally common
- 4 60 *Alternanthera sessilis*  
rare
- 46 61 *Cyperus brevifolius*  
locally common
- 6 62 *Cyperus odoratus* L.  
locally common
- 47 63 *Bacopa*?  
locally abundant

Aug. 13 - Ifaluk Islet  
in dispersed village

- 1 64 (fungus)  
on rotting coconut stump
- 1 65 *Polyporus*  
on rotting coconut log
- 2 66 (moss)
- 2 67 " all on coconut trees
- 2 68 " bog
- 1 69 (lichen)
- 1 70 (lichen)

Ifaluk Atoll

113

~~sterile~~ culms erect  
from decumbent bases.  
sterile

corollas bright lavender.

fertile panicle erect.

branched herb, 1 m. tall,  
petals yellow, caducous.  
sterile

stems ascending  
flowers whitish,  
stems erect, weak.

heads green.

small tufts.

spreading, <sup>somewhat</sup> rooting at  
nodes, stems soft;  
flowers whitish.

dull orange



Aug. 14 - Rella Islet

gravel spit has  
pioneer vegetation  
of

*Scaevola*

*Pemphis*

*Pandanus*

*Guettarda*

*Tournefortia*

*Cassytha*

*Cocos*.

The corner at the base  
of the spit is occupied  
by a coconut grove that  
has been the site of a  
recent fire. Is rather  
open as a result.

Along the seaward  
coast is a solid  
strip of *Pemphis*.

Monitor lizard about  
6 dm. long in interior  
forest.

Plants seen

*Scaevola*

*Tournefortia*

*Pandanus tectorius*

*Allophylus*

*Nephrolepis*

*Polypodium*

*Triumfetta*

*Terminalia samoensis*

*Cyrturus*

*Guettarda*

*Pemphis*

*Asplenium nidus*

*Cocos nucifera*

*Premna obtusifolia*

*Mouroua citrifolia*

*Ficus tinctoria*

*Jacca leontopetaloides*

*Lepturus repens*

*Vigna maritima*

*Calophyllum* (~~in clearing~~)

*Pisonia grandis*

*Artocarpus mariannensis*

*Athyrium*

*Barringtonia asiatica*

*Canavalia cathartica*

*Stenotaphrum micranthum*

*Hernandia sonchifolia*

*Crataeva speciosa*

*Cassytha*

*Alocasia* (in tiny clearing)

*Wedelia biflora*



The largest tree seen was an enormous old *Tournefortia*, about 7 dm dbh & 20 m tall. *Premna*, *Allophylus*, *Morinda* & *Guettarda* also canopy species. Seedlings & sprouts of *Allophylus*, *Morinda* are common.

ground covered by *Nephrolepis* with some *Polypodium*.

Shrub layer principally *Allophylus*.

Substratum is almost entirely cobbles & boulders, these all densely covered by a thin moss.

Small grove of fairly large *Calophyllum* near s.w. corner.

Two very large *Artocarpus* *marianensis* in from this with many seedlings

for

An enormous boulder field extends in from 200 yds from seaward beach.

Inland from this dense forest, not tall, with emergent taller trees, some young coconuts; cobble surface.

Exposed reef (at low tide) extends from the end of Ella I. in an arc to the next tiny islet, ~~the reef is~~ except for a short gap. This reef is a field of enormous jagged boulders. This boulder field extends into the lagoon, but apparently not as dense there on lagoon reef flat.

On Ella Islet the emergent breadfruit are scattered irregularly from near one end to near the other. The *Pemphis* scrub is poor and irregular and mixed with other things for 2/3



Labels  
typed

Aug. 14 - Ella Islet  
in dense tangled  
forest in interior of  
islet

47 + 71

*Hernandia sonora* L.

2

+

rare, one tree seen, near  
lagoon beach

2

72

*Artocarpus mariannensis*  
occasional

3

73

*Stenotaphrum micranthum*  
very local, in small  
semi-shaded openings.

2

74

*Athyrium*

very local in densest  
part, near west end of islet

1

75

fungus

on various plants

2

+

*Pisonia grandis* R.Br.

local in west end of islet

71 + 77

*Triumfetta procumbens* Forst. f.

very local in semi-open  
spot near east end of islet

2

+

*Terminalia samoensis* Rech.

occasional not far from  
beaches (also on lagoon beach)

71 + 79

*Cordia subcordata* Lam.

rare just in from seaward beach

64 + 80

*Pernpflia acidula* Forst. f.

abundant, forming a dense shrub  
of tall scrub or scrub forest

same - on lagoon beach

3

81

*Premna obtusifolia* R.Br.

common

1-2 m.

↓

sterile tree 5 m. ~~high~~ tall,  
leaves glossy.

fallen large tree, sterile  
(no specimen or seedling).

prostrate, forming  
soft loose mats.

rhizome, short erect.  
a + b from different ponds  
from same plant.

black sooty stain  
on leaf surface  
large tree 15 m. tall, sterile.

prostrate with erect  
branches, sterile.

shrub 3 m. tall,  
sterile.

sterile sprout from  
fallen tree.

1 m.

shrub 4 m. tall, petals white.

1 m.

small tree, flowers pale green.



120

1965 Caroline Is.

~~Sacule~~  
~~typical~~same - in dense forest  
in interior

47282

(moss)

2

abundant, covering all coral  
boulders

83

fungus

begin to

1  
ea.

84

fungus

85

fungus

86

fungus

all on decaying wood.

Ifaluk Atoll

121

1-2 m.



the length of the seaward beach. Then a stretch of magnificent *Pemphis* scrub forest, very dense.

The coconut trees are in patches here. Also on the distal part of Falalap Islet.

On Falalap there are a few scattered emergent breadfruit out almost to the end. The main canopy is *Premna* or some other light green tree, with coconuts more abundant westward. About  $1/3$  the way from the corner next to the channel is an enormous tree crown, very low on top, small leaved. Probably a banyan, just back from the beach.

There are abundant evidences of at least a minor typhoon not too long ago - students who were helping me say 1964. In the interior of both Ifaluk and Ella islets, a number of large trees, mostly breadfruit, have fallen, and the openings are not yet closed up, nor are the larger logs yet rotted noticeably. Piles of unrotted adze chips occupy some of the openings, showing that the logs have been utilized for canoe hulls. A number of canoes look very new. There is, especially on Ella Islet, a great deal of half-rotted debris - branches, in places making walking very difficult. On the seaward beaches, especially that of Ifaluk Islet, the shrubs and small trees of *Scaevola*, *Tournefortia* and *Quettarda* have a beaten-up appearance - they look as though they have just begun to recover. There is a great amount of debris - sticks, branches etc. in the scrub at the top of the beach.



## Faraulap

- ✓ Calophyllum - seran
- ✓ Centella harakara.  
arenfeng
- ✓ Lepturus ~~if~~ ingor
- ✓ Eragrostis ~~funar~~
- ✓ Digitaria bugor
- ✓ Vigna holu
- ✓ Scaevola nat'
- ✓ Fimbristylis ~~bugor~~ ingas
- ✓ Wedelia atiot
- ✓ Cocos lu
- ✓ Hymenocallis livo
- ✓ Morinda lel
- ✓ Polypodium chicki  
used for "grass" skirts.
- ✓ Psuedoranth. kratane  
atrop.
- ✓ Zizania pogn e pajē

General ground cover  
in village is Zizania  
but Lepturus takes  
over in outskirts.

- ✓ Canavalia walimako
- ✓ Alocasia fili
- ✓ Pteris sirilimaja
- ✓ Nephrolepis komara
- ✓ Triumfetta kora
- ✓ Asplenium n. wan'nu
- ✓ Pipturus arome
- ✓ Pisonia mok
- ✓ Ficus tinct. howan
- ✓ Allophylus ngur
- ✓ Tacca mokumok  
used for garlands
- ✓ Premna eān
- ✓ art. mar. mǎi
- ✓ Pandanus dubus poku



- ✓ *Eugenia* ~~se~~ fariap
- ✓ *Cratogeomys* afuch
- ✓ *Colocasia* wot onole  
not a very good var.
- ✓ *Mammecia* iofoj  
iofoj, iofoch
- ✓ *Cinnamomum* sp. hiob
- ✓ *Flemingia* kofarafat
- ✓ *Thuarea* pukot wripadap
- ✓ *Port. sam.* kop
- ✓ *Piper frag.* otuopue
- ✓ *Ilex* sp. pogramma

Coconut plantation  
with understory of  
*Cratogeomys*

- ✓ *Zelkova* warema saipan  
extensively naturalized
- ~~*Callicarpa*~~
- ✓ *Callicarpa* ligatas
- ✓ *Carica* wai whai

*Blechnum*

*Achyranthes* - ligakoka

*Dioscorea* bulb.

Grove of large *Pisonia*  
toward ~~the~~ seaward  
side along large road.  
But largest tree has  
been burned at  
base and fallen.  
Some other smaller  
ones cut.

- ✓ *Ficus prolixa* hinian
- ✓ *Tournefortia* chel
- ✓ *Guettarda* oot it
- ✓ *Ipomoea tuba* aramas

Seaward end of island  
a broad cobble ridge,  
covered by a wide belt  
of tall scrub of *Laevolobos*,  
*Guettarda*, *Tournefortia*  
tangled with *Wedelia*  
and *Ipomoea tuba*.

Only an occasional coconut.  
Inside this a strip of  
forest, principally *Pisonia*.  
Reef flat about 120-150 m. wide.



*Parringtonia* as. hul

Inland the *Pisonia* thins out, but there are very large trees.

Between them coconuts, *Pipturus*, *Persea*, *Cratera*, *Eugenia* and occasional *Artocarpus* *manuensis*.

~~The~~ A broad road, fully 5 m. wide follows the periphery of the island about 200 m inland. Along this are fair sized clearings where *Alocasia* is planted. More planted *Alocasia* here than I have seen elsewhere.

The ground cover is largely *Nephrolepis*, some *Polypodium*, some *Asplenium*.

*Piper fragile* is very common on ground and climbing tree trunks.

*Pandanus tectorius* scarce  
*Musa* occasional

✓ *Cucurbita* calapwas

✓ *Digitaria pruriens* puhon

✓ *Capacum* muig

✓ *Port. oleracea* iahud

In center of this loop, are patches of dense forest, festooned with *Piper* & *Canavalia*, and sunny clearing where tobacco & *Alocasia* are grown. Also a *Cyrtosperma* patch.

✓ *Cyrtosperma* pula

✓ *Ludwigia* sho

✓ *Saccharum* wof

✓ *Colocasia* ot

Tard marsh has sweet potatoes, ~~to~~ *Ocimum*, *Glossia*, *Hibiscus* hgh, *Cosmos*, *Musa* sugar cane, *Cyrtosperma* & *Colocasia*

✓ *Debraea* hgh pas tal



Mussa around banks  
not in mud  
Vigna gets down in  
mud a little.  
Euph. hirta on bank.

Small outcrop  
of atoll phosphate  
at end of taro pit

- ✓ Canna <sup>arum</sup>
- ✓ Hib. til. <sup>ilipus</sup>
- ✓ cananga <sup>atis</sup>
- ✓ Polycias <sup>hayang</sup>
- ✓ Pseud. can. <sup>libaturning</sup>
- Pand. tect <sup>fash</sup>

- ✓ Acalypha hirt. hatsiachil hatu

- ✓ Cath. rosas bobwosh

- ✓ Plurmea seul

Tagetes  
used for garlands

- ✓ Terminalia <sup>kil</sup>

- ✓ Cassytha <sup>eran</sup>  
used medicinally <sup>fash tig</sup>

Pi'ph Pi'h Pi'z & Pic

at west end is a  
vast reef flat uncovered  
except for winding shallow  
channels at low tide.  
These do not seem to  
be any corals on it.

It is covered by small  
coral gravel. Extends  
to Faraulap islet.

Well developed Scaevola  
fringe around this  
end, just outside the  
coconut plantation. Some  
Terminalia mixed  
with Scaevola, also  
Tournefortia, Wedelia  
& Sesuvium & Triumfetta  
abundant.

A number of small  
roughly circular pits  
2-3 m. across - one used  
for bathing, several for  
setting coconut husks for  
sennit. Apparently started  
when typhoon tipped over  
coconut trees. 1958. One fallen tree

- ✓ Rhizophora <sup>sia</sup> has turned  
up - trunk  
about 0.5 m  
vertically
- ✓ Bruguiera <sup>shong</sup>
- ✓ Soula mea <sup>mahat</sup>
- ✓ Pemphis <sup>haingi</sup>



*Bruguiera* used  
medicinally use  
bark and leaves.  
wood for houses.

*Rhizophora*  
for medicine &  
wood for houses.

both planted from  
drift seedlings.

The eastern half of  
this islet is covered  
by a village. The  
western half by  
coconut plantation  
and some coconut-  
breadfruit forest.  
*Zoysia* is the  
ground cover in the  
central part of the  
village, but *Lepturus*  
forms pure stands  
nearer the beach on  
the east end, under  
the coconut trees.  
*Wedelia oerubra* a  
belt a few m wide  
just back of beach.

Viewed from Pig Is.  
Faraulap shows  
about 1/2 coconut grove  
on lagoon side, one half

forest with few coconuts  
on seaward side

Forest : coconut grove

The other islet is  
more or less the reverse,  
the coconut grove on the  
side toward Faraulap,  
forest with few coconuts  
the other direction.  
E. Yetita or Et'it'islet.



134

1965 Caroline Is.

Aug. 15 - Pig Islet  
in open, dispersed village47287  
+  
2*Guettarda speciosa* L.  
occasional

3 88

*Fimbristylis cymosa* R.Br.  
very common

1 +89

*Zephyranthes rosea*  
planted in cemetery

4 90

*Lepturus repens* var.  
dominant under coconut  
trees back of beach

41 91

*Cassia occidentalis* L. ?  
planted near house

3 1+92

*Euphorbia cyathophora* Mun.  
in full sun, near cemetery

3 1+93

same - in coconut plantation  
in west half of islet  
*Soulamea amara*  
rare

3 +94

*Terminalia samoensis* v. Prell.  
occasional generally.

1 95

*Tagetes*  
planted in garden

3 96

*Allophylus timorensis* Bl.  
common in undergrowth

2 +97

*Bruguiera gymnorhiza*  
2 trees in small pool of water  
well in from shore

2 98

*Rhizophora mucronata*  
1 tree in small pool of water  
well in from shore.

Faraulap Atoll

135

1-2 m.

↓

tree 6 m. tall; fruits  
pale greenish pink.  
"oot" or "it"

"pugor ingas" or "bun ingas"

forming dense patches of sod.

much-branched shrub  
1 m. tall; flowers yellow.  
bracts red at base.

1 m.

shrub 2 m. tall. "marat"

sterile shrub 3 m. tall.  
"kil"herb with strong odor  
orange heads.shrub 3 m. tall; flowers  
white, fruit immature. "ngar"

0 m

↓

tree 5 m. tall. flower with  
red calyx. "shong" bark and leaves  
used medicinally, wood for building.planted, from beach-drift seedling.  
tree 4 m. tall; flowers whitish.  
"sia" used medicinally, wood  
for houses; planted, from beach  
seedling.



Labels Typed  
136

1965 Caroline Is.

47299  
x2 +

*Pemphis acidula* Forst. f.  
one shrub at edge of  
pool with mangroves,  
inland.

47300  
4 +

same - at top of beach  
west end of islet  
*Cassytha filiformis* L.  
locally common

Labels Typed  
with  
m & gram  
1 + 01

Aug. 15 - Faraulap Islet  
in village  
*Plumeria rubra* L.  
planted

same - in outskirts of  
village

46 02

*Zoysia tenuifolia* Trin  
forming a lawn  
between houses

4 + 03

*Triumfetta procumbens* Forst.  
common locally

4 04

*Nephrolepis biserrata*  
abundant generally  
terrestrial and on coconut stump

1 + 05

*Pseuderanthemum carutherii*  
var. *atropurpureum*  
planted

23 06

*Pteris tripartita*  
occasional

1 07

*Alocasia macrorhiza* (L.) Schott  
very common, planted  
and spontaneous.

Faraulap Atoll

137

0 m.

shrub 1 m. tall, flowers  
white, "haingi"

1 m.

green, forming a mat  
of leafless stems. "erai"  
"tink tiki" used medicinally.

1-2 m

↓  
"seu"

shrub 3 m. tall, lactiferous  
stems thick; flowers  
yellow in center, white  
outside.

dense, mat-like.  
"pogore page"

prostrate. "kora"

fronds erect from  
short erect rhizome.  
"komara"

sterile shrub, leaves  
maroon purple. "kratare"

rhizome short, erect,  
fronds erect. "sivilimuji"  
leaves reaching a very  
large size "file"



138

1965 Caroline Is.

47303  
34 +*Canavalia cathartica* Thunb.  
climbing abundantly

x5 + 9

*Polypodium scolopendria*  
abundant generally  
in trees

3 + 10

*Morinda citrifolia* L.  
common generally

2 + 11

*Hymenocallis littoralis* (Jacq.) Hal. var.  
common, planted

3 + 12

*Wedelia biflora* (L.) DC.  
very common

45 13

*Hedyotis biflora* (L.) Lam.  
common

3 14

*Scaevola taccada* (Gaertn.) Roxb.  
common at top of beach

4 + 15

*Vigna marina* (Burm.) Merr.  
common at top of beach

45 16

*Digitaria cf. timorensis* Bal.  
locally common at top  
of beach

4 + 17

*Eragrostis tenella* (L.) Beauv.  
locally common back  
of beach

4 18

*Lepturus repens* var.  
common back of beach

4 + 19

*Centella asiatica* (L.) Urb.  
very common

Faraulap atoll

139

Twinner, fruits pendent.  
"walimako"fronds reaching 0.7 m. tall,  
from creeping rhizome,  
terrestrial and on  
coconut stumps "chichi"  
leaves used to make "grass"  
shirts.shrub 1.5 m. tall, (others  
seen to 10 m.). "lel"leaves distichous,  
scapes compressed,  
edges sharp, 1.5 m. tall;  
flowers white "liris"  
sprawling resin-scented  
herb, heads yellow.  
"atit"

prostrate; flowers white.

shrub 1.5 m. tall; flowers  
white. "nat"creepers, ~~forming~~ forming  
loose mats; flowers  
yellow. "holu"

"buga" or "puga"

"pura" or "bura"

"puga" or "buga"

forming mats, "hara hara wen nen"



140

1965 Caroline Is.

47320

*Calophyllum inophyllum* L.  
occasionalsame - in woods toward  
seaward end of islet

71 21

*Artocarpus mariannensis* Tr. & Planch.  
common

71+22

*Carica papaya* L.  
common~~23~~

71 23

*Dioscorea bulbifera*  
occasional

42 24

*Callicarpa*  
rare

31 25

*Achyranthes*  
occasional

3 +26

*Blechnum brownii* f. *puberula* Fern.  
locally common

22 27

*Eugenia*  
common

6 28

*Zelkova pendula*  
commonly naturalized

1 +29

*Eleusine indica* (L.) Gaertn.  
occasional in path.

31 30

*Piper fragile*  
common, on ground  
and climbing tree-trunks

Faraulap Atoll

141

~~tree~~ small sterile  
tree 6 m. tall. "sevan"large emergent tree,  
leaves + catkins picked  
up from ground "māi"  
small unbranched  
tree, flowers white.  
"wainwhai"  
sterile twiner.shrub 1.5 m. tall; flowers  
purplish pink. "ligatai".

erect herb. "ligakoka"

tree 10 m. tall; fruits  
obovoid, reddish.  
"fariaf" fruit eaten.  
prostrate, leaves  
purple beneath, striped  
above; flowers bright  
magenta-pink.  
"wareuna saipa"

"pugouma"

vine, leaves glossy;  
~~etc~~ aromatic when  
broken; sterile. "otuopua"



Labels  
142

1965 Caroline Is.

47331  
+  
7+E

*Portulaca samoensis* v. *Paella*  
local in paths and  
cultivated land.

82+32 *Flemingia nuda*  
occasional along paths

3+33 *Thaarea involuta* (Forst.) R. & S.  
locally common

1 34 *Cinnamomum* sp.  
locally common

1 35 *Colocasia esculenta* (L.) Pers. α  
occasional in small  
clearing.

81 36 *Cratogeomys speciosa* Volk.  
abundant in understory

3+37 *Messerschmidia odorata* (Ref.) Kost.  
one small shrub seen

2 38 *Pandanus dubius* Spreng.  
one tree seen

1 39 *Artocarpus mariannensis* Tr.  
common

3 40 *Premna obtusifolia* R. Br.  
common in understory  
and canopy

1+41 *Tacca ~~palmeri~~ leontopetaloides* (L.)  
occasional

82 42 *Pipturus argenteus*  
very common

82+43 *Pisonia grandis* R. Br.  
very common

82 44 *Ficus tinctoria* Forst. f.  
common

Faraulap Atoll

143

fleshy, prostrate;  
flowers yellow. "kop"

stems red, fleshy.  
"kofarapat"

forming a mat.  
"puga. woupsadap"

rosettes, all seen sterile,  
slightly reddish green  
"hiob"

sterile; chlorotic.  
"wot onaku"

small tree 4 m. tall;  
flowers white, turning yellow.  
"afuch"

sterile shrub. "infoj" a "infoj"  
a "infoch"

small tree, leaves  
2 m. long. sterile "poku"  
large tree, sterile.  
"mai"

sterile shrub. "ear"

scape almost 2 m. tall,  
flowers green; leaves  
complicated. "mohumok"  
shrub 3 m. tall. "arome"

large sterile tree with  
pale trunk. "mok"

sterile shrub. "howan"

P. K. H.  
leaves used  
for garlands



Labile

144

1965

Caroline Is.

FrE

47345

4 +

*Asplenium nidus* L.  
common, terrestrial

same - outskirts of  
village

1 +46

*Pseuderanthemum carnuthersii*  
var. *carnuthersii*

2 +47

*Mirabilis jalapa* L.  
planted

43 48

*Acalypha hispida*  
planted

2 49

*Acalypha*  
planted

1 50

*Xanthosoma sagittifolium* (L.)  
planted, scarce.

1 51

*Xanthosoma violaceum*  
planted, scarce

1 +52

*Pseuderanthemum carnuthersii*  
var. *carnuthersii*  
planted

2 +53

*Catharanthus roseus* (L.) Don.  
planted

32 54

*Cananga odorata*  
planted

12 55

*Pilea microphylla* L.  
local

12 +56

*Lippia nodiflora* L.  
rare, on bare coral gravel.

2 57

*Lepidium cf. virginicum* L.  
rare, on bare coral gravel

Faraulap Atoll

145

fronds forming rosette  
almost erect. "wan'mu"

erect, unbranched shrub,  
sterile, "libaturning"

flowers whitish; much  
branched herb.

shrub, 1 m. tall, pistillate  
spikes long, dark red.

"hatsiachit patu"

shrub 0.6 m. tall, pistillate  
spikes reddish. (possibly  
a dwarfed form of *A. hispida*).

petioles green, leaves  
glaucous; sterile

petioles dark purple,  
leaves glaucous; sterile.

shrub 2 m. tall, leaves  
green; flowers white  
with red spots around center.

dwarf shrub; flowers  
white. "bobwosh"

shrub 3 m. tall; leaves  
hanging vertically; sterile.  
"atis"

prostrate; flower white



Labels  
146  
typed

47358  
2 +

1965 Caroline Is  
7+E

Hibiscus tiliaceus L.  
rare

2 59 Canna ~~indica~~ indica L.  
rare

2 60 Polyscias scutellaria (Burm. f.) Forb.  
commonly planted

same in and on banks  
of taro marsh

1 2 61 Hibiscus mutabilis  
rare

1 + 62 Manihot esculenta Crantz  
rare

2 + 63 Gomphrena globosa  
rare, planted

4 64 Eclipta alba (L.) Hassk.  
locally common weed

1 65 Cyrtosperma chamissonis (A. Schott) Merr.  
principal crop planted

3 66 Eleocharis geniculata  
common on bare mud

1 67 Colocasia esculenta (L.) Schott  
planted

1 68 Hibiscus rosa-sinensis x schizopetalus  
occasional, edge of

2 69 Saccharum officinarum L.  
occasional, planted.

4 3 70 Ceratopteris thalictroides  
common on bare mud

1 71 Ipomoea batatas  
planted

4 72 Echinochloa crus-galli (L.) Beauv.  
common weed

Faraaulap Atoll 147

tree 6 m. tall, a few  
fruits high up. "ilifun".

erect herb, 1 m. tall,  
flowers red. "arum"  
shrub 1-2 m. tall,  
sterile, leaves concave.  
"hayang"

0-1 m.



sterile shrub 1 m. tall

erect sterile shrub 1 m. tall.

branched herb; heads  
magenta.  
erect, heads white.

leaves erect; sterile.  
"pula"  
Cyrtosperma neumannii (Hassk.) Schott  
det DHN:alsn (US) 6/1998

glaucous "ot"

slender shrub, flowers  
scarlet. "pus tal"  
canes, plant to 2 m. tall,  
sterile. "wol"

fertile fronds erect.

creeper

culm erect.



148

1945 Caroline Is.

47373

*Alternanthera sessilis*

3 common on bare mud

4 + 74

*Ludwigia octovalvis* (Jacq.)

very common locally

45 75

*Cyperus odoratus* L.

common

82 76

*Ocimum sanctum* L.

planted

3 + 77

*Celosia argentea* L.

planted or spontaneous

3 78

*Cyperus brevifolius*

common

same - in dry <sup>sunny</sup> cultivated patches

41 79

*Coleus scutellarisoides* L.

planted

3 + 80

*Asclepias curassavica* L.

planted

2 + 81

*Euphorbia hirta* L.

occasional

3 + 82

*Physalis angulata* L.

occasional

4 + 83

*Nicotiana glauca* L.

planted

3 + 84

*Eragrostis tenella* (L.) Beauv.

abundant weed

4 85

*Phyllanthus amarus* Sch. & Th.

locally abundant

73 + 86

*Canavalia cathartica* Thou.

common, flowering

where sun reaches it

2 + 87

*Capsicum frutescens* L.

occasional

Faraulap Atoll

149

prostrate

Raven  
"sho"

erect herb 1-1.5 m. tall,  
petals yellow, caducous.

herb 0.4 m. tall, aromatic,  
racemes purple, corolla  
pale lavender.

plant purplish, flowers  
rose purple.

rhizome prostrate, firmly  
rooted in mud; heads green.

1 m.

↓

leaves deep maroon purple

erect herb 1 m. tall;

corolla red, corona orange.  
having a stunted appearance

sterile erect herb.

erect

vine climbing on bushes;  
flowers rose pink.

shrub 1 m. tall, flowers white,  
fruit scarlet "mwig"



Sample  
150

1965 Caroline Is.

47388

7+2

*Portulaca sampensis* v. Poelln.

4 3+

common

21 89

*Portulaca oleracea* L.

locally common

21 90

*Cosmos sulphureus*

occasional

same - in mixed

*Pisonia* forest near seaward

end of islet

4 91

*Digitaria*

local in somewhat open place

21 92

*Cucurbita maxima*

local in somewhat

open place

21+93

*Barringtonia asiatica* (L.) Kurz

rare

3 94

*Premna obtusifolia* R.Br.

common

3 95

*Ficus prolixa* var. *carolinensis*

one large tree seen

32+96

*Tournefortia argentea* L.f.

rare in thin place

same - on seaward

beach ridge

51+97

*Pomoea tuba* (Schlecht.) Don

locally common

Faraaulap Atoll

151

prostrate, fleshy; flowers

yellow. "kob"

prostrate, fleshy; stems

red. "patah" "patah" "iahud"

herb 1.5 m. tall; flowers

deep orange.

2 m



"pukor"

extensive creeper and

climber; leaves not

spotted. "calapwai"

tree 8 m. tall, sterile.

small tree; fruits green.

"eā"

banyan type tree, 15-20

m. tall. "hirian"

small tree 5 m. tall;

leaves sub-fleshy,

grayish; flowers white.

"chel"

3 m

vine, forming mat,

also seen climbing

in trees; flowers white,

wilted already at 10:30 a.m.

"ava'mai"



Aug. 17 - Moymog 7.

Entire lagoon beach lined with solid coconut plantation - no undergrowth seen except at west end, where a bit of *Scaevola*, & beach covered with *Vigna*, etc.

on west reef

Malotel 7. - tiny islet with tall scrub, no coconuts.

Potangoras 7.

Interior, toward lagoon, a large coconut grove. seaward half lined, at least with scrub forest, few coconuts showing lagoon beach, also. lined with forest, especially toward west end. But at west end no such forest and coconuts come down to beach.

Other islets too far away to see well. seem fairly well planted to coconuts.

south on east reef.

Begef 7. - bare

Mar 7. - small tuft of vegetation in sand flat.

Mangafat Mangafan 7. planted to coconuts, but north end, at least, choked with forest. Some scrub forest along lagoon beach. Coconut overhanging beach at S. end.

Loalang 7. - almost entirely broad-leaf forest, only a few coconuts, clump near center and a few scattered ones. Small tuft of them at south end at top of beach. Tall central part of forest is probably *Pisonia*. Lower outer fringe of scrub forest *Tournefortia*, *Pandanus* and probably *Quettarda*.

Fassera 7. - northern half coconuts with slightly emergent breadfruit. Southern half solid coconuts, no emergents from coconut canopy. Lagoon beach with interrupted strip of scrub. *Pemphis*?



<i>Pemphis</i>	hangī
<i>Tacca</i>	mokumok
<i>Trumpetia</i>	hara'a harak
<i>Cocos</i>	lu
<i>Calophyllum</i>	sevan
<i>Premna</i>	iar
<i>Hib. til.</i>	bulifue
<i>Ficus tincl.</i>	hawal (hawan)
<i>Polypodium</i>	chichi
<i>Carica</i>	waiwai
<i>Musa</i>	inch
<i>Cratera</i>	iabuch
<i>Codiaeum</i>	iabung iabung
<i>Physalis ang.</i>	pang pang
<i>Vigna</i>	holu
<i>Hymenocallis</i>	maching
<i>Centella</i>	habutal

<i>Hernandia</i>	ochal
<i>Pandanus</i>	fach
<i>Cassytha</i>	ulul
<i>Morinda</i>	(rol) lol
<i>Wedelia</i>	<del>a</del> iathinth
<i>Gaetarda</i>	inth
<i>Terminalia</i>	kil
<i>Pipturus</i>	ioroma
<i>Digitaria</i>	favil
<i>Ficus prolixa</i>	ngui ngai
<i>Agave</i>	fach (?)
<i>Prunice</i>	uwal
<i>Lepturus</i>	favil



156

1965 Caroline Is.

with  
m. from

Aug. 17 - Fassarai Islet  
in village

47398 *Pseuderanthemum caruotherii*  
var. *caruotherii*

planted

2 + 99 *Pseuderanthemum caruotherii*  
var. *atropurpureum* (Bull.) Forst.

same - in coconut plantation  
in outskirts of village

47400 *Ophioglossum*  
small patch in shade  
near path

01 *Corchorus aestuans*  
locally common in  
semi-open ground

02 *Lepturus repens* var.  
very common

03 *Agave cf. usalang*  
one seen

04 *Ficus prolixa*  
one seen, terrestrial

~~05 *Euphorbia chamissonis*~~  
same - in poor coconut  
plantation

05 *Euphorbia chamissonis* (Kl. + Gke.) Boiss. prostrate  
growing in sun

06 *Euphorbia chamissonis* (Kl. + Gke.) Boiss. erect  
growing in shade

07 *Digitaria*  
common locally along trail

08 *Phyllanthus*  
very common, especially along trail

Ulithi Atoll

157

leaves green,  
shrub 2.5 m. tall, flowers  
white with crimson  
spots in center.

shrub 2.5 m. tall, leaves  
dark purple; flowers  
crimson finely speckled  
with pink.

spikes erect, leaves  
at ground level.

flowers yellow

"favit"

small chlorotic sterile  
rosette.

small shrub 0.7 m.  
tall, sterile. "ngui" or "ngai"

prostrate

erect

"favit"



Labels typed  
158

1965 Caroline Is

47409 *Terminalia samoensis* Red.  
occasional

1 (10 *Bidens pilosa* L.  
locally common

same - in village

2 + 11 *Cordia variegata*  
commonly planted

Left Ulithi Aug. 17, 10 p.m.  
Arrived Yap Aug. 18, 8:15 a.m.  
got ashore by 10 a.m.

Ulithi Atoll

159

sterile shrub 1.5 m. tall;  
"kil"

shrub, leaves green  
with yellow spots.



Yap.  
cult. plants

*Thevetia peruviana*  
*Albizia lebbek*  
*Cynbopogon citratus*?  
*Theobroma cacao*

(paper on ramie culture  
in Micronesia (or in Palau)  
put out by Palau dept. of agriculture)

*Lamanea samar*  
*Rhaphidophora aurea*  
*Dieffenbachia picta*  
*Acalypha hispida*

*Saville*  
*Spad*

Aug. 19 - Between Colonia and  
High School  
in secondary forest

47412

*Scleria*

4

common under trees

2

13

*Diospyros*??

occasional

3

14

*Malaxis*

common

4

15

*Diospyros*?

occasional

Left Yap Aug. 20 11:30 a.m.  
arr. Airai, Palau, 12:45 p.m.  
(77 plane)

10 m

shrub 4 m. tall, sterile.

flowers yellowish.

sterile shrub 2.5 m. tall,  
young growth red.



~~Samoa~~  
~~Sept~~

Aug. 21 - Koror  
Ngerche'ed  
(Entomology Station)  
in garden

47416

*Mussaenda frondosa* var.  
planted, but of local origin

17

*Mussaenda frondosa* var.  
planted, but of local origin

18

*Mussaenda erythrophloea*  
planted

10 m.

large shrub 4-5 m. tall,  
enlarged calyx-lobe  
white, corolla-limb  
bright yellow; fruit  
immature.

large shrub 4 m. tall,  
enlarged calyx-lobe  
white, corolla-limb  
bright yellow.

shrub 4 m. tall; pubescent  
red. enlarged calyx-  
lobe bright red above,  
dull pink beneath;  
corolla red pubescent  
without, cream color  
within, center deep  
maroon.



*Spondias pinnata*  
used for condiment.

*Ransium domesticum*  
planted 15 years ago  
now a spindly sterile  
tree 3 m. tall. Not otherwise  
here.

*Araucaria excelsa*  
some old trees on Babeldaob.  
no small one at station

*Annona* <sup>squa</sup> ~~reticulata~~ <sup>mos</sup> Owen  
brought from s.e. Asia (Thailand?)

*Trichosanthes*  
(fruit an orange ball)  
brought from Thailand)

*Chrysophyllum carm.*

*Glincidia sepium*  
from agric. station, Palau

*Psidium guajava*

*Piper nigrum*  
Agr. Dept. introduction

*Alpinia nutans*

*Antidesma bunius*  
Owen introd. from Indonesia.  
5 1/2 year old tree v. n. fruiting  
abundantly.

*Nymphaea*  
deep pink night flowering  
closes 9 am

*Eichhornia crassipes*

*Cananga odorata*  
established

*Colocasia* sp.  
zuigi  
peltate, but blades  
almost erect.  
petioles eaten. leaves  
not acid to taste.

*Cymbopogon citratus*

*Agave* sp. caulescent  
white margins, long 3 dm long  
twigs used for blowgun boats

*Pterocarpus* ~~bisachs~~  
bisachs

*Acalypha* ~~ermalayang~~  
ermalayang



Aug. 22 - Ngerebe'ed  
in grounds of Entomology  
Laboratory

47419 *Pachyrhizus erosus* (L.) Urb.  
planted

3 20 *Ruellia equisetiformis*  
planted

9 21 *Acalypha hispida*  
planted

6 22 *Acalypha witheriana*  
planted

5 23 *Spermacoce suffruticosa* Jacq.  
common

1 24 *Panicum*  
weed

3 25 *Leea samboensis*  
planted (but of local origin)

6 26 *Crotalaria incana*  
planted

2 27 *Heliconia*  
planted

10 m.

vine, racemes  
erect, stiff; flowers dull blue.  
arching herb; corolla  
red.

shrub 1.5 m. tall,  
pistillate catkins  
dark purplish red  
pendent.

shrub to 2 m. tall;  
leaves dark bronze green,  
spotted with pinkish  
red, spikes dull  
reddish.

erect herb, flowers  
pinkish.

tall shrub, 4 m. tall,  
flowers dull yellow,  
ripe fruit black.

herb 1.5 m. tall; flowers  
yellow, without brown  
lines; brought from  
Japan.

large clump, to  
2.5 m. tall; spikes  
erect or almost so,  
bracts scarlet with  
green and white margins,  
flowers green and white;  
water held in bracts.



168

47428  
7

1945 Caroline Islands

*Eugenia malaccensis*  
planted

7 29 *Diospyros discolor*  
planted

6 30 *Cordia ~~sub~~ sebastena* L.  
planted

with Evans  
m.  
↓

31 (scroph)  
common on bare ground

1 32 *Ipomoea aquatica*  
planted

5  
4 33 *Oxalis*  
weed in bare ground

5 ↑ 34 *Hedyotis corymbosa*  
weed in bare ground

6 34a *Ocimum sanctum* L.  
planted

Palau — Koror 169

tree 6 m. tall; flowers  
deep rose pink.  
fruits said to be edible  
(said to be deep red and  
greenish on same tree).

tree 5 m. tall; flowers  
cream color, silky without,  
young fruit reddish hairy,  
older fruit dull whitish.

tree 5 m. tall; flowers  
deep orange; brought  
from Guam by Owen.  
flowers purplish blue

creeper, flower white;  
eaten as potherb;  
brought from southeast  
Asia by H. Owen.  
flowers pink.

spreading herb.

branched, low bushy, aromatic.



Aug. 23 - boat trip to  
Auluptagel & Urukthapel  
from boat dock.

Porteria is a conspicuous  
element in vegetation on  
steep limestone - gray-brown  
color. No palms on ridges  
but quite a few small  
ones on slopes. Dracaena  
very common. Some  
Pandanus, several spp.

Ngerang Nail -  
appears to be a small  
volcanic protrusion  
from north part of  
Auluptagel at foot main  
open area of Iwayama Bay.  
Surrounded by fringe  
of mangrove.

Iwayama Bay area &  
islands called Ngeramaiaich.  
Complex labyrinth of  
islets and channels at  
lower end.

Quettarda common  
on lower cliffs.

Garcinia rumiyo  
with long, virgate branches  
sprouting from top of  
slender trunk occasional.  
Fruit used to flavor food.

Near M-dock, end of  
canal to Malakal harbor  
Leucaena very common  
on filled land.  
Dii'ebachel seaweed  
Dibales beach, Auluptagel

Eugenia sp. rebotel  
fruit eaten  
leaves used after childbirth

Allophylus timorensis -  
ebeludes  
ingredient in headache  
medicine

Carpentaria sp.  
poisonous  
used medicinally  
young lvs. mashed for  
"asthma" afterward  
coconut syrup mixed with  
water & drunk.

Meryta? omidel  
used as abortifacient

Averrhoa bilimbi  
medicinal "emulsi"  
used by women after  
childbirth



Macaranga bedel  
emetic used when  
~~one~~ eaten something  
bad.

Parica - pounded  
roots to clear  
head.

Premna - ossem  
juice or shorn from  
peeled stem used  
as ~~styptic~~ or haemo-  
static to heal wounds

Glochidion ngolem  
mashed leaves  
as haemostatic.

Xylocarpus? among  
fruit eaten

Clerodendrum  
speciosissimum  
"butaran"  
mashed leaves to relieve  
itching of rash.

- Erue a kerweao  
~~ngewe~~ leaves  
chewed with  
betel nut.

Piper karibibui  
juice blown out of a  
short section of woody  
stem used as eye-drops  
when eyes are ~~red~~ red or  
have dirt in them.

Alpinia - delebezebes  
tall reed - used for  
medicine  
stem used to cure  
spear wounds  
sap must be  
blown into wound  
by someone else.

Ambroma clasp wind cloth  
bast fiber for rope, skirts, etc.  
Colubrina draged  
soap made from leaves

Pipturus - annuallueng

Ficus tinctoria - oseked

Dioscorea esiach

Caesalpinia ~~to~~ tologulik



Flagellaria ~~solida~~  
roul

mclamedei -  
belan

Operculina turp. besbus  
besbus  
leaves wrapped around  
Tudacna + sea anemone  
for cooking, they all  
eaten

Nephrolepis - marul  
medicine

Glochidion Resengel el gndem  
A medicine for teeth

Fagraea ralam

Randia coch Terunio  
make tea

Callicarpa cant. duk

Callicarpa el. anie

Ngerebe'ed bead

Pongium

area

coron

Shordea

Averrhoa

Cordia

Citrus

Cyrtosperma

Eugenia



176

1965 Caroline Is.

Labels  
typed

Aug. 23 - Dii'ebachel beach,  
east end of Aulupse'el).  
on small sand flat  
back of beach

47435

10

*Eugenia*  
several trees

5

36

*Polyscias grandifolia*  
common

1

37

*Allophylus timorensis* Bl.  
common

1

38

*Meryta senftiana*  
common

1

39

*Averrhoa bilimbi*  
one tree seen near  
edge of enclosed pond

3

40

*Citrus*  
several seen, probably  
planted.

5

41

*Artocarpus cf. mariannensis*  
common, said to  
occur principally in  
limestone islands

1

42

(alga?)  
parasitic on *Alocasia macrorrhiza*

Palau Is. - Aulupse'el).

177

7 m

↓

tappoon - beaten large  
tree; fruit immature.  
"rebotel", fruit eaten;  
leaves said to be used  
medicinally after childbirth.

~~the~~ unbranched shrub  
3 m. tall; flowers and  
young fruits purplish  
black, styles green.

shrub; flowers white;  
fruit red. "ebeluchdes"  
said to be an ingredient  
in a headache medicine.

seedling of a tree  
that reaches a considerable  
height. "omidel" said  
to be used as an abortifacient.

small sterile tree.  
"emurkuns" said to be used  
by women after childbirth.

small trees, very  
aromatic, fruit globose  
with a slight neck,  
about 7 cm. diam.

4 m

tall tree

2 m

causing bright yellow  
spots in leaves.



Salisbury typed  
178

1965 Caroline Is.

47443 *Flacourtia rukam*?  
seedlings only seen

1 44 *Clerodendrum speciosissimum*  
seedlings only seen

1 45 *Glochidion*  
~~occasional~~

1 46 *Premna obtusifolia* R.Br.  
occasional

1 47 *Alpinia*  
occasional

5 48 *Piper*  
common

2 49 *Callicarpa*?  
occasional

2 50 *Ixora coccinea* Hance  
common

Palau Is.

179

seedling 1.5 m. tall, young  
growth red. "em ong"  
fruit said to be eaten.  
seedling 1 m. tall, sterile,  
ill-scented; "butarar"  
mashed leaves said to  
be used to relieve itching  
of a rash.

sterile shrub; "ngalen"  
mashed leaves used  
as a haemostatic or  
styptic.

sterile shrubs, only,  
seen. "ossem" juice or  
slime from peeled stem  
used to heal wounds.

Slightly aromatic.  
canes to 1.5 m. tall,  
enlarged at base  
"delebebe" sap blown  
from <sup>cut</sup> stem into spear  
wounds to heal them.

woody vine, climbing  
trees, sterile; "kasibibui"  
sap blown from short  
section of woody stem  
into eye as an eye drop  
for inflammation and to  
wash out foreign particles.

sterile shrub;  
"erue" or "kerweao"  
leaves chewed with  
betel nut.

shrub 1.5 m. tall; flowers  
scarlet.



Salisbury types  
180

1965 Caroline Is.

47451 *Acalypha arnentacea* var.

occasional

3 52 *Colubrina asiatica*  
occasional

10 53 *Ambroma augusta* L.  
common

1 54 *Caesalpinia*

2 55  
occasional

1 56 *Pipturus*  
occasional

3 57 *Ficus tinctoria*  
occasional

1 58 *Trichosanthes*  
rare

4 59 *Callicarpa*  
occasional

2 60 *Dioscorea*  
common

1 61 *Garcinia rumizys*?  
occasional

6 62 *Dioscorea*  
occasional

3 63 (legum.)  
common

Palau Is.

181

shrub, m. tall,  
pistillate spikes erect.

- subscandent sterile shrub,  
"drigel" leaves rubbed  
up and used for soap.

- shrubs 3 m. tall, stems  
armed with stinging hair,  
petals deep maroon-purple  
toward base yellowish  
at tips. "lap" bast  
fibers used for rope  
and to weave skirts,  
lana-lanas, etc.  
vine; "tologulik"

- sapling 1.5 m. tall,  
sterile.

- shrub; leaves green  
beneath

- sterile shrub; "oseked"  
lactiferous fruit eaten  
sterile vine

- shrub 2 m. tall;

- fruits purple.  
sterile vine, with  
either alternate or  
opposite leaves. "esiach"  
tubers eaten.

- sterile sapling

- sterile vine - said to  
be same as 47460. "esiach"  
erect sterile shrub, becoming  
a twiner.



Labels  
typedAug. 23 - Ngerebe'd  
beacheast end of Aulupae'el I.  
on sand flat between  
beach and taro marsh

47464

3

*Dioscorea bulbifera* L.

occasional

65

*Citrus hystrix*?

one tree back of beach

6

66

*Glochidion*

occasional

6

67

*Cayratia*

common

3

68

*Ixora casei* Hanceoccasional (but leaf  
width variable)

3

69

*Horsfieldia*

occasional

1

70

*Pteris tripartita*

occasional

7 m

sterile vine with  
underground tubers,  
this dull purplish  
within, tasteless.tree 7 m. tall, very  
aromatic; fruits  
ellipsoid to obovoid.shrub 2.5 m. tall,  
flowers green; "Kesenget  
el ngolem", toothache  
remedy.extensive vine, on  
ground and in trees,  
flowers green.said to be poisonous, but  
used medicinally -  
young leaves mashed  
and taken for "asthma"  
(afterward coconut syrup  
taken).shrub 1.5 m. tall;  
flowers scarlet.small tree, branching  
issuing from trunk  
near base; sterile;



Labels typed 1965 Caroline Is.

184

47471 *Opereculina turpethum*  
occasional

2 72 *Randia cochinchinensis*  
occasional

2 73 *Cordia alliodora*  
occasional, apparently  
naturalized

4 74 *Glochidion*  
occasional

9 75 *Acalypha armentosa*  
occasional

3 76 *Nephrolepis*  
common

2 77 *Flagellaria*  
occasional

4 78 *Callicarpa candicans*  
occasional

3 79  
common

same - around taro  
marsh well back of beach

20 80 *Couratima*  
very common

Palau Is.

185

extensive sterile vine;  
"besbus" leaves wrapped  
around sea anemone and  
tridacna, cooked and eaten.  
sterile; "terumis" used for tea.

shrub 2 m. tall, leaves  
somewhat variegated  
with white and pink.  
slender tree 5 m. tall  
flowers greenish.

"ngolem"  
shrub 2 m. tall.  
"marsul" used  
medicinally by men.

vine; "rulelamedei belau"

sterile shrub "duk"

sterile shrub;  
used in cooking

tree 15 m. tall,  
fruits pendent,  
bright orange.  
"alam"



186

1965 Caroline Is.

Salisbury  
typedAug. 24 - Ngerebe'ed,  
Koror I.

around Entomology Laboratory

47481

*Moringa oleifera*  
planted

12 m

Palau

187

tree 10 m tall, 25 cm dbh.,  
flowers white,  
fruit pointing  
vertically downward;  
leaves eaten.



Plants observed or collected on grounds of the Entomology Lab. at Ngerebe'd.

*Premna obtusifolia*  
*Pangium edule*  
*Eugenia malaccensis*  
*Moringa oleifera*  
*Mussaenda erythrophloea*  
*Mussaenda frondosa*  
*Diospyros discolor*  
*Araucaria excelsa*  
*Horsfieldia*  
*Tamarindus indica*  
*Leea sambucina*  
*Acalypha hispida*  
*Acalypha wilkesiana*  
*Codiaeum variegatum*  
*Heliconia*  
*Mangifera indica*  
*Carica papaya*  
~~*Criminum*~~  
*Thunbergia grandiflora*  
*Cordia sebastena*  
*Acacia confusa*  
*Plumeria obtusa*  
*Plumeria rubra*  
*Gardenia jasminoides*  
*Hibiscus mutabilis*  
*Jasminum* cf. *multiflorum*  
*Persea americana*  
*Boerhagiodendron* sp.  
*Cocos nucifera*

*Sporobolus diander*  
*Crotalaria incana*  
*Crotalaria mucronata*  
*Crotalaria spectabilis*  
*Chrysopogon aciculatus*  
*Zea mays*  
*Ageratum conyzoides*  
*Oxalis corniculata*  
*Oxalis*  
*Nymphaea*  
*Eichhornia crassipes*  
*Ocimum*  
*Spermacoce suffruticosa*  
*Zephyranthes rosea*  
*Pachyrhizus erosus*  
*Hedyotis corymbosa*  
*Ipomoea aquatica*  
*Ruellia equisetiformis*  
~~*Criminum*~~  
*Hymenocallis littoralis*  
*Caladium bicolor*  
*Nephrrolepis biserrata*  
*Hedychium coronarium*  
*Alpinia nutans*



*Angiopteris erecta*  
*Allamanda hendersonii*  
*Cordyline fruticosa*  
~~*Brethia glandulosa*~~  
*Pandanus cf. tectorius*  
 (variegatus var.)  
*Gmelina*  
*Leucaena leucocephala*

*Nymphaea* in  
 Ngerebe'ed. came from  
 a river in Baheldarob.



192

193



Stephen Peachem

c/o Dist ad

Yap, Western Caroline Is.  
Trust Territory of Pacific Is.

Interior

T.A. G 1683



